



LEADERS IN QUALITY POWER PRODUCT SOLUTIONS

Bainbridge Technologies is one of Australia's leading Expert Power Systems Wholesaler...

Bainbridge Technologies brings together more than 30 years of DC and AC power systems expertise and reliable, world class products to support your business objectives with specialised off-grid power storage systems.

When you need a partner with proven, reliable and innovative expertise in DC and AC off-grid power storage solutions, Bainbridge Technologies is Australia's smart choice.

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**STAY UP
TO DATE:**



www.baintech.com.au



Australian designed, engineered and assembled batteries

Just 50mm wide



12V 110Ah 20A DC-DC Lithium Battery (Slimline)

The light weight and slim-line battery is constructed using the latest generation prismatic lithium iron phosphate cells and an inbuilt Battery Management System (BMS). This slim-shaped battery is perfect for tight spaces in RVs, caravans and 4WDs, such as behind seats.

The Slimline battery provides up to 100A of continuous discharge or charge and can be stacked in parallel to increase amp hour storage capacity. Charge and discharge via the grey Anderson plug and charge from a DC source via the blue Anderson plug.

A strong aluminium enclosure delivers a safe, lightweight and powerful unit which is the perfect building block for next generation battery systems.

Features...

- **Internal 20A DC DC Charger & VCR**
- **Internal 100A BMS**
- **Aluminium powder coated enclosure**
- **1 x grey Anderson connector (In/Out)**
- **1 x blue Anderson connector (DC In)**
- **Lightweight at just 11kg**
- **Connect in parallel: more capacity & power**
- **Designed and fully assembled in Australia**

SPECIFICATIONS

Model	BTLITH12110-DC
Capacity	110Ah
Nominal Voltage	12.8V
Type	LiFePO4
Charge Voltage	14.6V max
Charge Current	100A max continuous
Discharge Current	100A continuous
Discharge Current	200A peak
Operating Temp	0-45°C
Weight	11kg
Life at 80% DoD	2,000 cycles
Life at 50% DoD	5,000 cycles
Size (LxDxH)	635 x 260 x 50mm





50Ah LiFePO4

Portable power, anywhere you need it.

- More power
- Faster charging
- Light-weight
- 4 USB Sockets incl. C type
- BMS protection with external fusing

Go off-grid with the new generation **Baintech Lithium PowerTop**. Equipped with **50Ah** of lithium battery cells, you can power your fridge, lights, phone, and everything in between.

Powerful yet lightweight, take your PowerTop camping, mount in your vehicle, or use at home when there's a black out.

DC-DC CHARGING

Available with optional* built-in **dual DC-DC Charging**.
10A via Ciga Plug Connection
20A Via Anderson Plug Connection for vehicle charging.

*Optional DC-DC charging is an add on feature, does not come standard with 50Ah model.

Standard 50Ah Charging

Standard 50Ah Model charged via Lithium battery charger, external DC-DC, or via regulated solar charging via grey Anderson.

Specifications	
Fusing	3 x 30A ANL Fuses 1 x 30A fuse for all Accessory Sockets 2 x 30A fuse (50A in Total) for Grey Anderson loads or chargers
BMS	Maximum continuous Discharge - 60A Maximum continuous Charge - 60A Maximum connected Inverter - 600W Maximum connected solar panels - 800W
Lithium Cells Capacity	50Ah at Nominal 12.8V
Accessory Specifications	
Cig Socket	10A max
Engel Socket	10A max
USB C	2.4A max
USB Dual	2.1A max
Voltmeter	100% - 13.4V 50% - 12.8V 0% - 10V
DC-DC Charger (If equipped)	Via Cig Plug connection <10A continuous Via Grey Anderson <20A continuous VSR set to 12.5V cut-out, 13.0V cut in



5 YEAR WARRANTY
Battery only



Australian engineered and assembled



Why Lithium?

Lithium batteries provide more usable capacity than lead acid batteries. Deep discharging does not affect the life of a lithium battery the way it does with lead acid batteries. You can use the battery longer before needing to recharge, without damage to the battery.

Cost Effective Over Life Cycle

When considering the usable capacity and lifespan of lithium batteries, they work out cheaper than lead acid. When you add the cost and inconvenience of refitting new lead-based batteries every few years the total cost of ownership over the long term is far better with lithium batteries.

Longer life

Lithium batteries are rated for 2,000 – 5,000 cycles and much more if used carefully, giving you several times the life expectancy of standard lead acid batteries

Powerful

Lithium batteries allow you to pull far more amps out of the same size battery systems

Light-weight

Lithium batteries are less than half the weight of the equivalent lead acid battery.

Fast recharge

Lithium batteries charge more efficiently, and don't require as many stages during charging. Therefore, they will charge faster, and hold more of the energy from solar panels and other charging device





LIVE THE GOOD TIMES

LITHIUM



**Australian designed,
engineered and
assembled batteries**

12V 110Ah Lithium Battery (Slimline)

The light weight and slim-line battery is constructed using the latest generation prismatic lithium iron phosphate cells and an inbuilt Battery Management System (BMS). This slim-shaped battery is perfect for tight spaces in RVs, caravans and 4WDs, such as behind seats.

When placed in parallel using the 50A grey Anderson plug, these batteries operate together as a single battery; e.g. two 110Ah batteries in parallel provide 220Ah of capacity.

A strong aluminium enclosure delivers a safe, lightweight and powerful unit which is the perfect building block for next generation battery systems.



Just 50mm wide

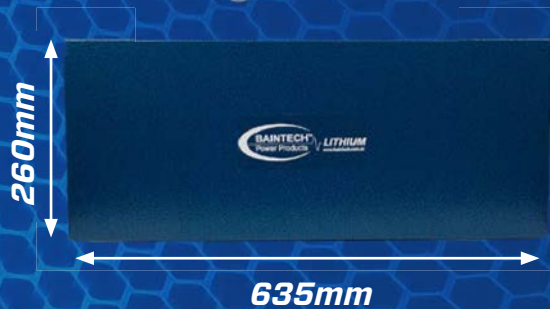


Features...

- **Internal 100A BMS**
- **Aluminium powder coated enclosure**
- **2x 50A grey Anderson connector**
- **Lightweight at just 11kg**
- **Connect in parallel: more capacity & power**
- **Designed and fully assembled in Australia**

SPECIFICATIONS

Model	BTLITH12110-SL
Capacity	110Ah
Nominal Voltage	12.8V
Type	LiFePO4
Charge Voltage	14.6V max
Charge Current	100A max continuous
Discharge Current	100A continuous
Discharge Current	200A peak
Operating Temp	0-45°C
Weight	11kg
Life at 80% DoD	2,000 cycles
Life at 50% DoD	5,000 cycles
Size (LxDxH)	635 x 260 x 50mm



**Find out more:
Click here to
watch the video**



Phone: 1300 224 683 email: sales@baintech.com.au
<https://baintech.com.au/lithiumbatteries>





**Australian designed,
engineered and
assembled batteries**

Optional Extras

- Solar panels
- AC Charger
- AC Inverters
- DC Cable



12V 110Ah Lithium Battery (Standard)

The light weight 110Ah battery is constructed using the latest generation prismatic lithium iron phosphate cells and an inbuilt Battery Management System (BMS). This battery is perfect for RVs caravans and 4WDs. Provides up to 100A of continuous discharge; can be placed into parallel to provide for higher power requirements.

The positive and negative M8 terminals include a positive fused and unfused connection with an external MEGA 100A fuse.

A strong aluminium enclosure delivers a safe, lightweight and powerful unit which is the perfect building block for next generation battery systems.

Features

- Internal 100A BMS
- Strong aluminium enclosure
- External 100A fuse
- Fused POS & Unfused connection
- Lightweight 11kg
- Designed and fully assembled in Australia.

SPECIFICATIONS

Model	BTLITH12110-SP
Capacity	110Ah
Nominal Voltage	12.8V
Type	LiFePO4
Charge Voltage	14.6V max
Charge Current	100A max continuous
Discharge Current	100A max continuous. 200A Peak
Operating Temp	0-45°C
Weight	11kg
Life at 80% DoD	2,000 cycles
Life at 50% DoD	5,000 cycles
Size (LxDxH)	257 x 177 x 190





**Australian designed,
engineered and
assembled batteries**

Optional Extras

- Solar panels
- AC Charger
- AC Inverters
- DC Cable

**5 YEAR
WARRANTY**



12V 150Ah Lithium Battery (Compact)

The light weight 150Ah battery is constructed using the latest generation prismatic lithium iron phosphate cells and an inbuilt Battery Management System (BMS). This battery is perfect for RVs caravans and 4WDs. Provides up to 100A of continuous discharge; can be placed into parallel to provide for higher power requirements.

The positive and negative M8 terminals include a positive fused and unfused connection with an external MEGA 100A fuse.

A strong aluminium enclosure delivers a safe, lightweight and powerful unit which is the perfect building block for next generation battery systems.

Features

- Internal 100A BMS
- Strong aluminium enclosure
- External 100A fuse
- Fused POS & Unfused connection
- Lightweight 14kg
- Designed and fully assembled in Australia.

SPECIFICATIONS

Model	BTLITH12150C-SP
Capacity	150Ah
Nominal Voltage	12.8V
Type	LiFePO4
Charge Voltage	14.6V max
Charge Current	100A max continuous
Discharge Current	100A max continuous. 200A Peak
Operating Temp	0-45°C
Weight	14kg
Life at 80% DoD	2,000 cycles
Life at 50% DoD	5,000 cycles
Size (LxDxH)	265 x 163 x 240





LIVE THE
GOOD TIMES

LITHIUM



**Australian designed,
engineered and
assembled batteries**

Optional Extras

- Solar panels
- AC Charger
- AC Inverters
- DC Cable



12V 225Ah Lithium Battery (Standard)

The light weight 220Ah Battery is constructed using the latest generation prismatic lithium iron phosphate cells and an inbuilt Battery Management System (BMS).

Perfect for RVs caravans and 4WDs: 100A of continuous discharge; can connect in parallel for more power.

The positive M8 terminals give a fused and unfused connection with an external MEGA 100A fuse.

Two negative M8 terminals allow an external shunt to be connected if required.

A strong aluminium enclosure delivers a safe, lightweight and powerful unit which is the perfect building block for next generation battery systems.

Features

- Internal 100A BMS
- Strong aluminium enclosure
- External 100A fuse
- POS M8 Fused & Unfused Terminals
- NEG Shunt Connection option
- Lightweight 20kg
- Designed & assembled in Australia

SPECIFICATIONS

Model	BTLITH12225-SP
Capacity	225Ah
Nominal Voltage	12.8V
Type	LiFePO4
Charge Voltage	14.6V max
Charge Current	100A max continuous
Discharge Current	100A max continuous 200A Peak
Operating Temp	0-45°C
Weight	20kg
Life at 80% DoD	2,000 cycles
Life at 50% DoD	5,000 cycles
Size (LxDxH)	326 x 245 x 260 (285 incl. Battery Post)



Phone: 1300 224 683 email: sales@baintech.com.au
<https://baintech.com.au/lithiumbatteries>



CHARGERS



CTEK

MAXIMIZING BATTERY PERFORMANCE

DUAL INPUT 20A CHARGER WITH SELECTABLE CHARGE VOLTAGES



With award winning Swedish technology, the dual input D250SE allows you to enjoy your vehicle more with maximized battery capacity as the ideal charger for vehicles without access to a mains power supply.

ENJOY MORE AND RELAX

The D250SE is a fully automatic, 5 step charger that supplies up to 20A of power to any 12V lead-acid or lithium* service battery from 40-300Ah. It has selectable charge algorithms for AGM and lithium* batteries and can use power through its dual input from alternator, solar panel and wind power. When the service battery is fully charged, the D250SE will automatically redirect maintenance charge power to the starter battery. The D250SE can maintain a stable output up to 20A to vehicles fitted with smart ECU controlled alternators and also has a temperature sensor for optimised charging, regardless of weather conditions.

- 20A fully automatic temperature compensated charging for batteries from 40-300Ah while you're on the move
- Dual input (solar and alternator in parallel)
- Smart alternator compatible
- Selectable lithium* and lead-acid mode
- Solar panel regulator with Maximum Power Point Tracking (MPPT)
- Battery separation replacing diodes and VSR relays
- Selectable AGM option - 14.4V or 14.7V
- Maximized charging for better battery life and performance
- Temperature sensor to compensate for hot or cold conditions
- Splash and dust proof (IP65)
- Compatible with SMARTPASS 120, SMARTPASS 120S for the ultimate 140A power management solution
- 2-year warranty

*) 12V lithium batteries (LiFePO₄, Li-Fe, Li-iron, LFP)

PRO25S

HIGHLY EFFICIENT 25A BATTERY CHARGER & POWER SUPPLY

The PRO25S is an innovative, versatile and highly efficient 25A battery charger and power supply, designed around the needs of the automotive professional. Combining power & advanced technology with safety, portability and flexibility to work with any 12V vehicle battery including lithium, the PRO25S is the perfect solution to professional battery charging, in the workshop or the showroom.*

FOR EVERYDAY PROFESSIONAL USE

Advanced technology will ensure that a safe, fast charge is delivered to exactly meet the needs of the individual battery. The PRO25S has a dedicated lead-acid battery reconditioning programme to restore battery life & recondition flat batteries. SUPPLY mode will support the battery during diagnostic or fault finding work. It has low voltage & current ripple, so it's safe for the battery & the vehicle's delicate electronic systems. Fully automatic & easy to use, it's also very simple to connect, spark proof and reverse-polarity protected to protect the user & also the battery. The PRO25S is designed to ensure easy handling in both the workshop & the showroom. Whilst it's lightweight & portable, the rugged, impact-resistant casing means it can also handle the toughest workshop environment.



- Dedicated lithium* mode
- Compatible with batteries from 40Ah to 500Ah (30Ah to 450Ah lithium*).
- SUPPLY mode to support the battery during diagnostic or fault-finding work.
- Fully automatic and easy to use. Simple to connect, spark proof and reverse-polarity protected.
- Integrated safety features, so it's safe for the battery & the vehicle.
- Built-in temperature sensor to achieve maximum charge levels
- Dedicated lead-acid reconditioning programme to restore battery life and recondition flat batteries.
- IP44 classified for outdoor use
- Lightweight & highly portable
- Tough & robust
- 2 year warranty

*) 12V lithium batteries (LiFePO₄, Li-Fe, Li-iron, LFP)

CTEK D250SA

CTD250SA

The D250SA refines all DC sources including alternators and solar power, to perfectly match the amount of charge the battery requires whilst minimising charge time. The D250SA is a 20A multi-step charger that automatically adjusts the charging voltage and current according to the battery state of charge and temperature to ensure that the battery is safely optimised for performance.

- Maintains, conditions and optimises battery life
- Uses alternator power, solar power or both
- 2 year warranty



Technical Data	
Charging Voltage	14.4V
Charging Current	20A
Type Of Charger	5 Step, Fully Automatic DC to DC Charging Cycle
Type Of Battery	12V Lead-acid Batteries
Battery Capacity	40–300Ah
Insulation	IP65
Dimensions (L x W x H)	197 x 93 x 49 mm

CTEK SMARTPASS 120

CTSMARTPASS120

Smart, simple and multi- featured, the CTEK SMARTPASS120 is designed to work only with the D250SA and is an energy regulator for energy production, usage and storage in any 12V DC system. It manages and optimally distributes the power from the charger. It directs regulated energy where it's needed; it boosts alternator output; and it minimises charge time.

- Boost battery performance
- Minimises charge time
- 2 year warranty



Technical Data	
Charging Current	80A
Type Of Battery	12V Lead-acid Batteries
Battery Capacity	200–800Ah
Insulation	IP65
Dimensions (L x W x H)	197 x 93 x 49 mm

COMBINE FOR THE ULTIMATE 140A POWER SYSTEM

Used independently CTEK's D250SA and the SMARTPASS120 are superb, but combined, especially for service batteries larger than 100Ah, they become the ultimate power management system. Together these smart products can deliver up to 140A to your service batteries while you're on the move. This dynamic duo is the ultimate 140A power system that allows you to manage and control your power more reliably.

FEATURES:

- 5-step charging from smart and conventional alternators and DC sources, such as solar and wind
- Automatic battery separator works without the need for diodes or VSR relays
- Selectable AGM mode for AGM batteries
- Parallel input from both alternator and solar panel
- Solar panel regulator with Maximum Power Point Tracking (MPPT)
- Starter battery maintenance charging when your service battery is fully charged

CTEK 20A Off Road Charging System

CTOFFGRID

This off road system will charge your adventure. It's great for powering your fridge, camp lights, radio or keeping your portable devices ready to go. If you use the **CTEK 20A** Off Road Charging System, you can be sure your food will stay cool, your music keeps playing, and the technology lovers are happy.

Part of the system, the CTEK D250A uses your vehicle's alternator to charge your 12V batteries while you drive, so people can spend less time worrying about power and more time enjoying the adventure.

In addition to alternator-based charging, the D250SA has a dedicated solar input for campsite charging. That way, once you have found the perfect site, you can attach your solar panels and use the sun to deliver more energy.

The CTEK D250SA is fully automatic; the 5-stage charger supplies 20A to all batteries of 40-300Ah and is IP65 classified (splash and dust proof). The CTEK System Monitor can calculate your amp hour draw and voltage, the state of charge, the power you have remaining, and it will even tell you how much power you are using.

D250SA

The D250SA obtains its energy from DC sources such as alternators, solar panels or wind power and optimizes this power to meet the charging requirements of different battery banks.



SYSTEM MONITOR

The unit continually monitors the voltage, the current (charge and discharge) and calculates the state of charge together with the time remaining to charge or discharge the battery.

CTEK 140A OFF ROAD CHARGING SYSTEM

CTOFFROAD140

The CTEK 140A Charging System is the ultimate 12V power system. It combines the best of the CTEK D250SA Smart Charger, a CTEK Smartpass120 Complete Management Unit and CTEK System Monitor in a three-in-one off road adventure power system. "This off road system will charge your adventure. It's great for powering your fridge, camp lights, radio or keeping your portable devices ready to go. If you use the CTEK 140A Charging System, you can be sure your food will stay cool, your music keeps playing, and the technology lovers are happy."

Part of the system, the CTEK D250SA uses your vehicle's alternator to charge your 12V batteries while you drive, so people can spend less time worrying about power and more time enjoying the adventure. In addition to alternator-based charging, the D250SA has a dedicated solar input for campsite charging. That way, once you have found the perfect site, you can attach your solar panels and use the sun to deliver more energy.

The CTEK D250SA is fully automatic; the five-stage charger supplies 20A to all batteries of 40-300Ah and is IP65 classified (splash and dust proof). A key component of the CTEK 140A Charging System, The CTEK Smartpass120 Complete Power Management Unit boosts your alternator output to your batteries to dramatically shorten the time it takes to charge them. It controls and distributes energy transferred through the D250SA Smart Charger and has a charging current up to 80A for batteries of between 28-800Ah.

The 140A Charging System positions the CTEK Smart Pass & D250SA Smart charger to give you power like never before. The Smartpass acts as a voltage control relay and initially passes high currents to charge your service battery quickly. When the voltage in your service battery equals your starter battery (less than 20A), charging automatically switches back to the CTEK D250SA. On top of this you can gain critical information about the health of your batteries with the CTEK System Monitor. This monitor can calculate your Amp hour draw and voltage, the state of charge, the power you have remaining, and it will even tell you how much power you are using.



D250SA

The D250SA charger obtains its energy from DC sources such as alternators, solar panels or wind power and optimizes this power to meet the charging requirements of different battery banks.

SMARTPASS120

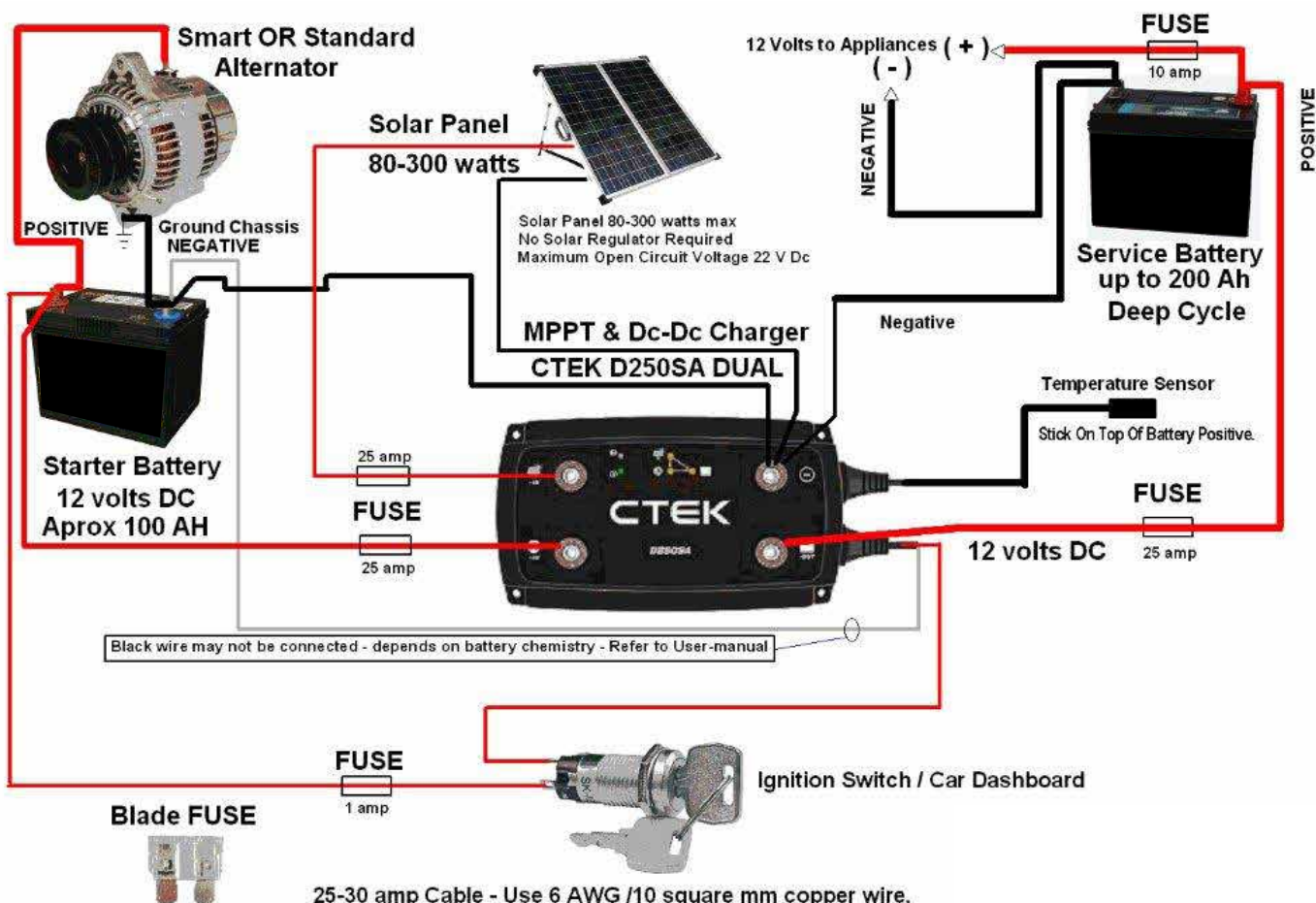
SMARTPASS120 is an energy management unit with built-in under voltage protection. It utilizes the available energy and supplies it to the service batteries or the electrical loads.



SYSTEM MONITOR

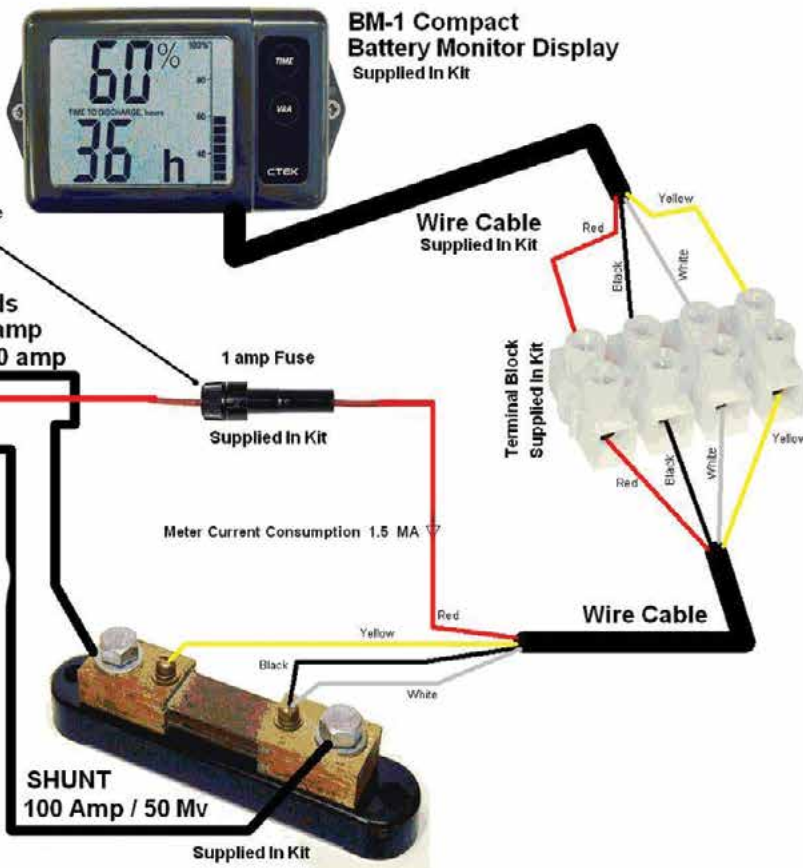
The unit continually monitors the voltage, the current (charge and discharge) and calculates the state of charge together with the time remaining to charge or discharge the battery.

CTEK D250SA WIRING DIAGRAM

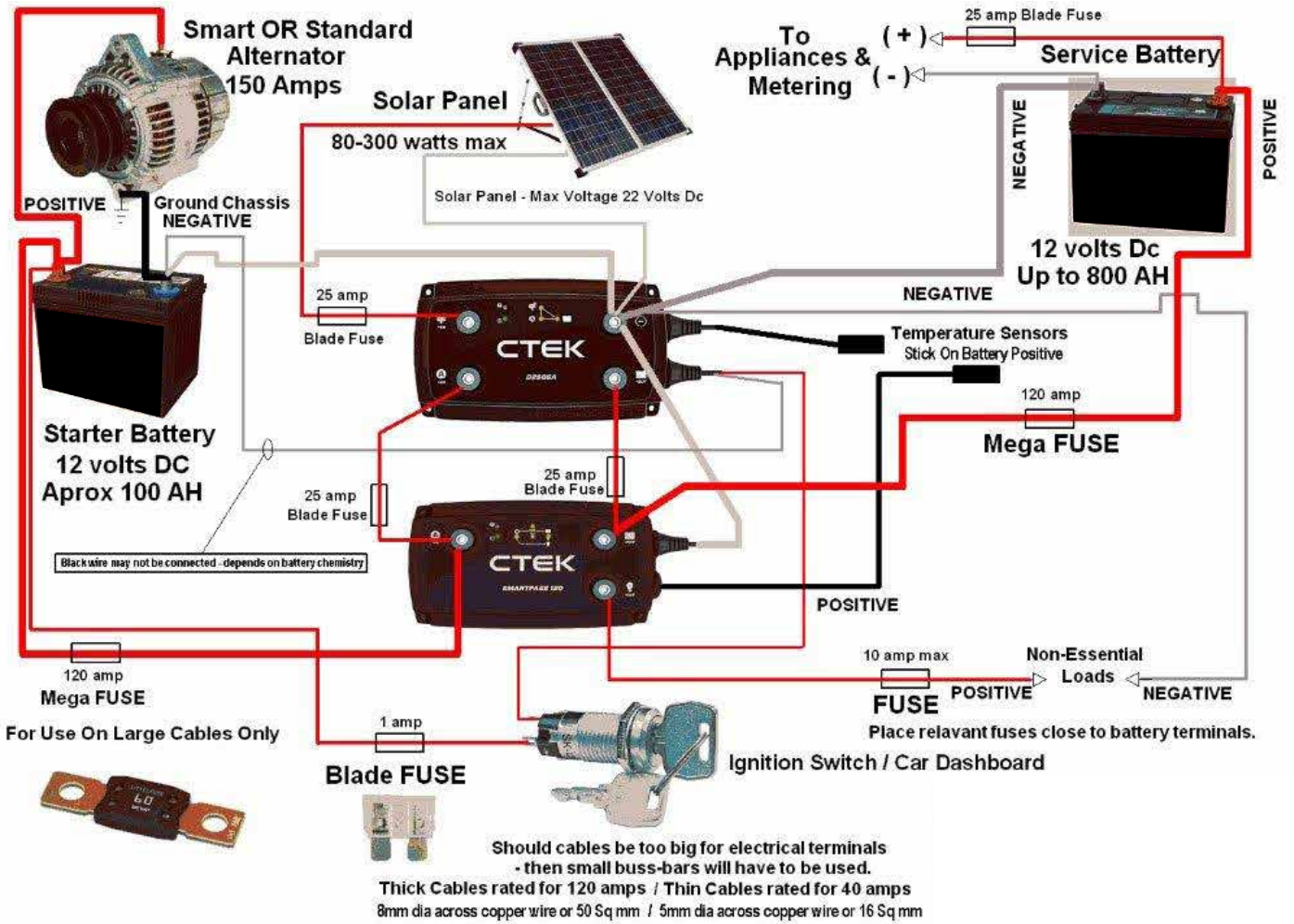


25-30 amp Cable - Use 6 AWG / 10 square mm copper wire.
 1 amp cable - Use 13 AWG / 2.5 square mm copper wire.

To Charger & DC Loads
 From D250S Dual (20 amp Charger)
 From D250S & Smartpass units (100 amp Charger)



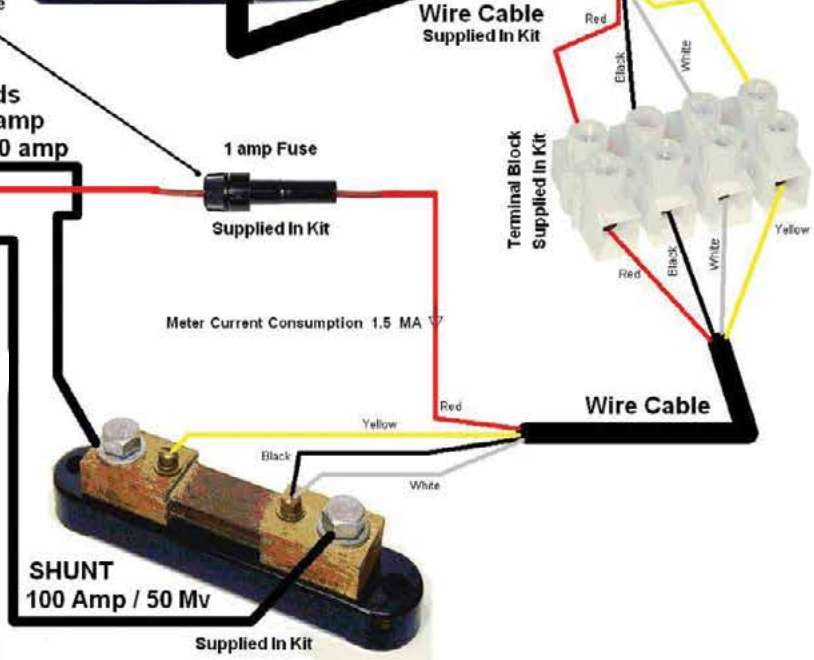
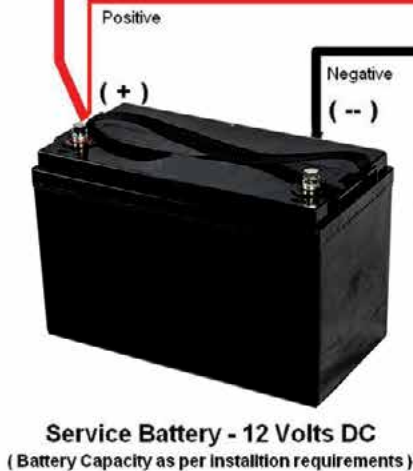
CTEK D250SA & SMARTPASS120 WIRING DIAGRAM



To Charger & DC Loads
 From D250S Dual (20 amp Charger)
 From D250S & Smartpass units (100 amp Charger)



Thick cables to suit loads
 5mm dia Copper for 20 amp
 10mm dia Copper for 100 amp



CTEK MXS5

CT5000/12

The MXS 5.0 is an advanced microprocessor controlled battery charger, with automatic temperature compensation built in, providing unrivalled performance. The built in temperature compensation ensures ideal charging performance even in the most extreme conditions. The patented Float/Pulse maintenance mode is ideal for long term maintenance.

- Internal temperature sensor
- Special charge curve for cold weather and AGM batteries
- 5 year warranty

Technical Data	
Charging Voltage	14.4/14.7/15.8V
Charging Current	Max 5A
Type Of Charger	8-step, fully automatic charging cycle
Type Of Battery	12V Lead-acid Batteries
Battery Capacity	1.2–110Ah, up to 160Ah for maintenance
Insulation	IP65
Dimensions (L x W x H)	168 x 65 x 38 mm



CTEK MXS7

CT7000/12

The MXS 7.0 is the perfect universal 12V charger. It is ideal for charging larger batteries such as caravan, RV, boat and car batteries. These types of vehicles often demand features that can solve a broad range of battery-related problems.

- Supply mode
- Special reconditioning function for acid stratified batteries
- 5 year warranty

Technical Data	
Charging Voltage	14.4/14.7/15.8 /13.6V
Charging Current	Max 7A
Type Of Charger	8-step, fully automatic charging cycle
Type Of Battery	12V Lead-acid Batteries
Battery Capacity	14–150Ah, up to 225Ah for maintenance
Insulation	IP65
Dimensions (L x W x H)	191 x 89 x 48 mm



CTEK MXS10

CT10000/12

Precision engineered with CTEK's 'New Generation Technology', this powerful, compact and amazingly affordable 12V charger delivers fully automatic 8-step charging. It is ideal for professional use and excellent in workshops, caravans, RVs, boats or cars.

- Supply mode
- Removable temperature sensor
- 2 year warranty

Technical Data	
Charging Voltage	14.4/14.7/15.8 /13.6V
Charging Current	Max 10A
Type Of Charger	8-step, fully automatic charging cycle
Type Of Battery	12V Lead-acid Batteries
Battery Capacity	20–200Ah, up to 300Ah for maintenance
Insulation	IP65
Dimensions (L x W x H)	197 x 93 x 49 mm



CTEK MXS15

CT15000/12

The MXS 15 is a reliable AC charger for 12V batteries. The charger is as effective in workshops as on caravan or boat outings. Several chargers can be connected simultaneously if a higher charging current is required

- External temperature sensor for optimised charging
- Special reconditioning function for acid stratified batteries
- 2 year warranty

Technical Data	
Charging Voltage	14.4/15.8 /13.6V
Charging Current	Max 15A
Type Of Charger	8-step, fully automatic charging cycle
Type Of Battery	12V Lead-acid Batteries
Battery Capacity	30–300Ah, up to 500 h for maintenance
Insulation	IP44
Dimensions (L x W x H)	235 x 130 x 65 mm



CTEK MXS25

CT25000/12

This powerful charger provides a host of charging and reconditioning features making it not only ideal for the professional workshop, but also for caravans, RVs and boats. The MXS 25 is an 8-step fully automatic primary switched-mode battery charger and a powerful piece of equipment designed for rapid charging.

- External temperature sensor for optimised charging
- Reconditioning function for deeply discharged batteries
- 2 year warranty

Technical Data	
Charging Voltage	14.4/15.8 /13.6V
Charging Current	Max 25A
Type Of Charger	8-step, fully automatic charging cycle
Type Of Battery	12V Lead-acid Batteries
Battery Capacity	40–300Ah up to 500Ah for Maintenance
Insulation	IP44
Dimensions (L x W x H)	235 x 130 x 65 mm



CTEK MXT4.0

CT4000/24

A cost effective and reliable charger ideal for wheelchairs, mobility equipment and 24V back-up systems where maintaining batteries at maximum capacity is vital. The MXT 4.0 has been designed to provide charging and maintenance to all 24V lead-acid battery systems.

- Special charge curve for cold weather and AGM batteries
- Reconditioning function for deeply discharged batteries
- 2 year warranty

Technical Data	
Charging Voltage	24V
Charging Current	4A max
Type Of Charger	8-step, fully automatic charging cycle
Type Of Battery	24V Lead-acid Batteries
Battery Capacity	8–100Ah, up to 250Ah for maintenance
Insulation	IP65
Dimensions (L x W x H)	191 x 89 x 48 mm



CTEK MXT14

CT14000/24

A powerful charger ideal for heavy duty and workshop use on commercial vehicles and buses using 24V systems. It is an 8-step fully automatic, primary switched-mode battery charger designed for rapid charging.

- Built in temperature sensor for optimised charging
- Reconditioning function for deeply discharged batteries
- 2 year warranty



Technical Data	
Charging Voltage	28.8/31.6V
Charging Current	Max 14A
Type Of Charger	8-step, fully automatic charging cycle
Type Of Battery	24V Lead-acid Batteries
Battery Capacity	28–300Ah, up to 500Ah for maintenance
Insulation	IP44
Dimensions (L x W x H)	235 x 130 x 65 mm

CTEK XS 0.8

CT800/12

This is the ideal maintenance charger for guaranteed starting of occasionally used vehicles. The XS 0.8 is perfectly suitable for charging 12V batteries from 1.2Ah to 32Ah, maintaining the batteries of cars, motorcycles and other vehicles up to 100Ah. The charger is supplied complete with clamps, permanent connectors and storage bag.

- Suitable for maintenance charging car batteries
- Special reconditioning function for acid stratified batteries
- 5 year warranty



Technical Data	
Charging Voltage	12V
Charging Current	Max 0.8A
Type Of Charger	6-step, fully automatic charging cycle
Type Of Battery	12V Lead-acid Batteries
Battery Capacity	1.2 - 32Ah, up to 100Ah for maintenance
Insulation	IP65
Dimensions (L x W x H)	145 x 55 x 38 mm

CTEK XC 0.8

CT800/6

The XC 0.8 is the ultimate charger choice for 6V vehicles and perfectly suitable for maintaining the batteries of classic cars, motorcycles and other vehicles. Fully automatic, once the battery is charged the XC 0.8 will automatically switch to its maintenance phase.

- Great for charging 6V vintage car batteries
- 5 year warranty



Technical Data	
Charging Voltage	6V DC
Charging Current	Max 0.8A
Type Of Charger	4-step, fully automatic charging cycle
Type Of Battery	12V Lead-acid Batteries
Battery Capacity	1.2-100Ah
Insulation	IP65
Dimensions (L x W x H)	142 x 51 x 36 mm

CTEK Lithium XS

CTLITHIUM5.0

The LITHIUM XS is a fully automatic “connect and forget” 8-step charger. It has an excellent testing sequence to show if the LiFePO4 battery can take and retain charge, a maximisation step to restore full capacity, and patented maintenance charging to ensure top performance.

- Specially designed for lithium (LiFePO4) batteries
- Will automatically reset any low voltage protection electronics fitted
- 5 year warranty

Technical Data	
Charging Voltage	13.8/14.4V DC
Charging Current	5A max
Type Of Charger	8-step, fully automatic charging cycle
Type Of Battery	12 V LiFePO ₄
Battery Capacity	5 - 60Ah, up to 120Ah for maintenance
Insulation	IP65
Dimensions (L x W x H)	168 x 65 x 40 mm



CTEK MXS 5 Test and Charge

CT5000TEST

The MXS 5.0 TEST & CHARGE combines an advanced microprocessor controlled battery charger with a battery and alternator test function to provide the ultimate in battery testing, charging and maintenance.

- 3 battery testing programs: Battery Voltage; Starting Power; and Alternator
- Charging mode for charging small batteries
- 5 year warranty

Technical Data	
Charging Voltage	14.4 / 14.7 / 15.8V DC
Charging Current	5A max
Type Of Charger	8-step, fully automatic charging cycle 3 voltage test programs
Type Of Battery	12V Lead-acid Batteries
Battery Capacity	1.2 - 110Ah, up to 160Ah for maintenance
Insulation	IP65
Dimensions (L x W x H)	168 x 65 x 38 mm



CTEK CT5 Time To Go

CTT2GO

The CTEK TIME TO GO charger takes a different approach to battery charging. It tells you when your battery will be ready for use. A series of LED lights indicate the different charging stages and how long it will take before the battery is charged and ready to go. There are also indicators that tell you when you can safely TRY to start your vehicle and when the battery is ready to GO.

- 5 year warranty

Technical Data	
Input	220–240VAC, 50–60Hz, 0.6A
Output	5A max, NORMAL 14.4V, AGM 14.7V, RECOND 15.8V
Ambient Temperature	-20°C to +50°C
Type Of Battery	All types of 12V lead-acid batteries (WET, MF, Ca/Ca, AGM and GEL)
Battery Capacity	20–160Ah



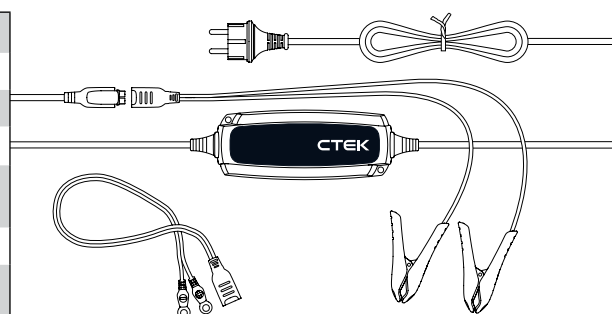
CTEK CT5 Start Stop

CTSTARTSTOP

The CTEK START/STOP Battery Charger & Maintainer has been specially designed to provide safe and easy charging and maintenance for vehicles equipped with the new generation START/STOP technology. To ensure the vehicle's START/STOP function operates effectively to deliver maximum fuel efficiency and minimum environmental impact.

- Practical and simple to use with an easy-to-understand display
- Non-sparking, reverse-polarity protected
- Splash resistant and short-circuit proof
- 5 year warranty

Technical Data	
Input	220–240VAC, 50–60Hz 0.5A
Output	3.8A max, 14.55V
Ambient Temperature	-20°C to +50°C
Type Of Battery	All types of 12V lead-acid batteries (WET, MF, Ca/Ca and GEL) Optimized for AGM and EFB-batteries.
Battery Capacity	14-130Ah
Temperature Compensation	Built in charge voltage compensation according to ambient temperature.



MAINTAIN YOUR START/STOP CARS BENEFICIAL FUNCTIONS

START/STOP technology puts considerable strain on your car's battery. In order to maintain your START/STOP car's beneficial functions, such as fuel efficiency and reduced environmental footprint, you have to take care of your car's battery.

The CT5 START/STOP battery charger is specifically designed to charge and maintain batteries in START/ STOP vehicles safely and easily.

Why is charging important?

- Up to three times longer lifetime
- Higher start/stop functionality
- Better preserved cranking resistance

How does start/stop technology affect the battery?

- Start/stop technology requires an expensive start/stop battery
- A replacement battery is up to 50% more costly than traditional equivalent
- Battery life and fuel-saving benefits are reduced if not charged regularly

CTEK M100

CTM100/12

An excellent marine charger offering great value for money that provides complete battery care for small boats with a 12V-battery, and which can serve as a start and service battery.

The practical Recond mode reconditions the battery following deep discharging, which can occur after a long day at sea. AGM mode provides optimum charging of AGM batteries that require a slightly higher charging voltage. There is a Supply mode which acts as a power source if you need to disconnect a battery and do not want to lose important electronic settings.

IP65 classification means that the M100 is splash and dustproof. It does not generate any harmful galvanic currents, is fully compatible with the boat's electronics and has been developed to offer safe charging: non-sparking, reverse polarity protection and short circuit proof. The M100 comes with a 5 year guarantee.

Technical Data	
Charging Voltage	13.6V; 14.4V; 14.7V or 15.7V
Charging Current	7A max
Ripple	<4%
Ambient Temperature	-20°C To +50°C
Type Of Charger	8-step, fully automatic charging cycle
Type Of Battery	12V Lead-acid Batteries
Battery Capacity	14–150Ah, maintenance 14–225Ah
Insulation	IP65
Dimensions (L x W x H)	191 x 89 x 48 mm



CTEK M200

CTM200/12

The M200 is the perfect solution to charge large 12V batteries. The charger has a 4m long charge lead with eyelet connections, making it ideal to be permanently mounted, with an integrated temperature sensor for optimised charging irrespective of temperature. The M200 is not compatible with clamp connections. The M200 is a fully automatic 8-step charger that supplies 15A and is ideal for batteries between 28–300Ah and up to 500Ah for maintenance charging. If you intend to stay overnight onboard you can switch to Night mode for silent charging.

- Night mode for silent charging
- Reconditioning function for deeply discharged batteries
- 5 year warranty



Technical Data	
Input Voltage	220–240VAC, 50–60Hz
Charging Voltage	14.4V
Charging Current	15A max
Ripple	<4%
Ambient Temperature	-20°C To +50°C
Type Of Charger	8-step, fully automatic charging cycle
Type Of Battery	12V Lead-acid Batteries
Battery Capacity	28–300Ah, maintenance 28–500Ah
Insulation	IP44
Dimensions (L x W x H)	235 x 130 x 65 mm

CTEK M300

CTM300/12

The M300 is a great charger for boats with large battery banks. The charger has a 4m long charge lead with eyelet connections, making it ideal to be permanently mounted, with an integrated temperature sensor for optimised charging irrespective of temperature. The M300 is not compatible with clamp connections. The M300 is a fully automatic 8-step charger that supplies 25A and is ideal for batteries between 40-500Ah. The M300 analyses whether the battery can accept and retain the charge, removes harmful lead sulphate crystals, gives an effective charge and automatically switches to safe maintenance charging when the battery is fully charged. The practical Recond mode reconditions the battery following deep discharge cycles, which can occur after a long day at sea.

- Night mode for silent charging
- Reconditioning function for deeply discharged batteries
- 5 year warranty



Technical Data	
Input Voltage	170–260V AC, 50–60Hz
Charging Voltage	14.4V
Charging Current	25A max
Ripple	<4%
Ambient Temperature	-20°C To +50°C
Type Of Charger	8-step, fully automatic charging cycle
Type Of Battery	12V Lead-acid Batteries
Battery Capacity	50-500Ah
Insulation	IP44
Dimensions (L x W x H)	235 x 130 x 65 mm

CTEK MXTS40 12/24V 40A

CTMXTS40

The MXTS 40 is essential equipment that is suitable for universal use in the 12V and 24V vehicle workshop or showroom. It is a simple to use, electronically safe battery charger with rapid charging for all chemistries. Equally suited to battery support, the MXTS 40 provides selectable constant voltage settings to avoid ECU damage due to voltage fluctuation during programming.

In addition to the 8-step charge progress display, the LED display is easy to see and provides clear readouts of important charge parameters, including current, voltage and amps charged. Highly portable, the MXTS 40 comes with 2.5m cables and detachable clamps.

- Temperature compensation and battery reconditioning functions
- Electronically safe multi step rapid charging
- 2 year warranty

Technical Data	
Charging Voltage	14.4V/14.7V/15.8V and 28.8V/29.4V/31.6V
Charging Current	Max 40/20A
Type Of Charger	8-step, fully automatic charging cycle with adjustable parameters
Type Of Battery	All types of 12/24V lead-acid batteries
Battery Capacity	12V: 20–1200Ah, 24V: 10–600Ah
Insulation	IP20
Power Supply Settings	12V: 13.6V/14.0V/14.4V/14.8V 24V: 27.2V/ 28.0V/28.8V/ 29.6V



CTEK MXTS70 70A

CTMXTS70

The MXTS 70 is both a high-current power supply for memory flashing and a powerful workshop charger with state of the art technology. Developed for both 12V and 24V lead acid batteries, the MXTS 70 is equipped with all necessary features and functions required for professional battery care at a workshop.

- Selectable modes for optimal battery size adaptation
- Selectable charge algorithm for best flexibility
- 2 year warranty

Technical Data	
Charging Voltage	12/24V
Charging Current	Max 50A
Type Of Charger	8-step, fully automatic charging cycle
Type Of Battery	12 & 24V Lead-acid Batteries
Battery Capacity	20Ah - 1500Ah
Insulation	IP20
Dimensions (L x W x H)	338 x 178 x 80 mm



CTEK PRO

CTPRO60 + CTPRO120

The PRO60 from CTEK is an innovative, versatile and highly efficient 60A battery charger and power supply, designed around the needs of the modern workshop. With its unique combination of cutting-edge design, advanced technology and innovative features, no other battery management tool provides such a comprehensive solution to professional battery charging, care and support.

INNOVATIVE DESIGN, INNOVATIVE TECHNOLOGY

Convection cooling eliminates the need for cooling fans, improving operating efficiency and reliability.

COMPATIBLE WITH ALL CHEMISTRIES

Suitable for all types of 12V lead-acid battery and lithium LiFePO4.

VARIABLE POWER SUPPLY SELECTION

12.6V to 14.8V available, selectable in 0.1V increments. 'Memory Saver' mode preserves vehicle settings if the battery is removed.

QUICK AND EASY TO USE

A new and unique Adaptive Charging mode automatically recognises the size of the battery, and any parallel loads, and applies the optimum settings for the fastest charge. A simple user interface - four buttons and a clear LCD display.

SAFE AND HIGHLY STABLE

Spark-free and reverse-polarity protected, class-leading EMC protection, low voltage ripple and low current ripple, input voltage surge protection and burst protection.

PORTABLE AND DURABLE

Supplied with 5m cables and heavy-duty clamps. Rugged impact-resistant casing folding carrying handle. Optional accessories - Wall Hanger, Mobile Workstation.

2 YEAR WARRANTY



PRO 120



PRO 60

Technical Data	CTEK PRO 60	CTEK PRO 120
Input Voltage	220-240V, 50-60Hz, 4.6A	220-240V, 50-60Hz, 4.6A
Output Voltage	12V, 60A	12V, 120A
Start Voltage (minimum voltage to detect a connected battery)	0.8V	0.8V
Back Current Drain	Less than 2Ah/month	Less than 2Ah/month
Ripple Current	Less than 4%	Less than 4%
Ripple Voltage	Less than 4%	Less than 4%
Temperature Range	-20°C to +50°C (-4°F to +122°F)	-20°C to +50°C (-4°F to +122°F)
Battery Types	Lead acid: Wet, Ca/Ca, AGM, EFB (Start/Stop types) and Gel Lithium: LiFePO4	Lead acid: Wet, Ca/Ca, AGM, EFB (Start/Stop types) and Gel Lithium: LiFePO4
Battery Capacity	Lead acid: 10-1800Ah, Lithium: 15-600Ah	Lead acid: 10-3000Ah, Lithium: 15-1200Ah
Insulation Class	IP40 (indoor use)	IP40 (indoor use)
Charge Cables Length	5000mm (DC cable)	5000mm (DC cable)
Mains Cables Length	2500mm (AC cable)	2500mm (AC cable)
Temperature Compensation	Built in temperature sensor	Built in temperature sensor
USB	Type B USB port for software updates and service	Type B USB port for software updates and service
Net Weight kg (unit with cables)	8.6kg	13.77kg
Gross Weight kg (unit in box)	10.1kg	16.02kg
Dimensions (L x W x H)	284 x 227 x 216 mm	408 x 226 x 284 mm

CTEK Charger Accessories

Part Number	Description
CTIND382	CTEK Eyelets M8 - 8.4mm 400mm Cables & 15A Fuse - Indicating
CTIND380	CTEK Panel M8 - 8.4mm 1500mm Cables & 15A Fuse - Indicating
CTIND531	CTEK Panel M8 - 8.4mm 3.3m Cables & 15A Fuse - Indicating
CTIND384	CTEK Clamps - 1000mm Cable & 15A Fuse - Indicating (BQ 50)
CTADAPT263	CTEK Cigarette Adaptors
CTADAPT262	CTEK Alligator Clamps
CTADAPT260	CTEK Comfort M6 400mm long x 6.4mm Lugs/Eyelets
CTADAPT261	CTEK Comfort M8 400mm long x 8.4mm Lugs/Eyelets
CTADAPT329	CTEK Comfort M10 400mm long x 10.4mm Lugs/Eyelets
CTADAPT573	CTEK Comfort Connect Cigarette Socket
CTADAPT304	CTEK Comfort adaptor 2.5m extension cable
CTWB345	CTEK Wall Hanger Mounting Bracket
CTBUMPER	CTEK Bumper suits MXS5.0
CTBUMPER10	CTEK Bumper 10 suits XC/XS 0.8
CTBUMPER100	CTEK Bumper 100 suits MXS7.0
CTBUMPER120	CTEK Bumper 120 suits MXS10
CTTROLLEY	CTEK WORKSHOP TROLLEY
CTWH006	CTEK MOUNTING BRACKET
CTWH314	CTEK WALL HANGER 300
CTWHPRO	CTEK WALL HANGER PRO 40/70



CTEK Battery Analyser

CTBATTERYANALYSER

CTEK's simple, at a glance, 12V Battery Analyzer will report on your battery condition and tell you if action is required. Anybody can use it, just attach the device to a battery and you'll instantly see one of these results:

- Battery Good – you don't need to take any action
- Good Recharge – the battery is fine but needs a charge to restore capacity
- Charge and Retest – charge the battery and test again or;
- Replace Battery – battery should be replaced immediately

The CTEK 12V Battery Analyzer is compatible with all types of 12V lead-acid batteries including Wet, Maintenance Free, Ca/Ca, Gel and AGM and can test batteries ranging in size from 200A to 1,200A.

It's ideal for 4WDs, RVs, caravans, boats and your every day cars.



Technical Data	
Type of Analyser	Conductance
Type of Battery Analysed	12V Lead-acid
Min Testing Voltage	8V
Max Testing Voltage	15V
Resolution	25 EN
Accuracy	± 25EN

CTEK Battery Sense

CTBATTERYSENSE

The CTEK BATTERY SENSE is a Bluetooth® enabled, smart battery management tool. It'll help you prevent vehicle breakdowns and maximise the performance of your battery by giving you valuable, easy to understand information about the state of your battery's charge.

Features:

- Gives you real-time readouts of your battery status
- Check your battery status anywhere from your phone
- Connects to your smartphone via Bluetooth
- Built-in push notifications act as low voltage warnings
- Works with 12V lead-acid batteries
- Works on Android or iOS



CTEK Battery Tester

CTPROTESTER

The CTEK PRO Battery Tester performs accurate battery tests quickly and prints out the results so you can show your customer.

The CTEK PRO Battery Tester gives you quick, simple and accurate battery tests in seconds. It has an integrated printer so you can hand your customer a printout of the results and talk to them immediately about preventative maintenance for their battery or electrical system. The patented PRO Battery Tester is ideal for different types of 12V batteries (standard/flooded, AGM and GEL) and electrical systems in cars and light trucks.

- Tests multiple batteries: standard/flooded, AGM and GEL
- Tests discharged batteries down to 1V
- Bad cell detection
- 2 year warranty





40A DC-DC

3-stage battery charger for Flooded cell, Lithium and AGM/GEL

Features Include:

- 3-stage 12V Booster Battery Charger
- Output Current : 80A Max with optional kit. 40A Max standard wiring.
- Selectable output voltages for Lithium, Sealed Lead Acid or Vented Lead Acid
- Over Current and Temperature protections for extra product reliability.
- High Efficiency : Typical >96%
- Precise under voltage protection : No need for external isolator.
- Remote LED indication for battery charge status.
- Very low standby current: <3mA
- Optional Start Assist and Boost Charge features.

2 YEAR WARRANTY



ADD ON BATTERY MONITOR



TECHNICAL SPECS - BTDC40

Maximum Charge Current	40 Amps
Input Operating Voltage Range	11VDC to 16VDC
Maximum Charge Voltage for Flooded Cell	14.5V
Maximum Charge Voltage for Lithium	14.8V
Maximum Charge Voltage for AGM/GEL	14.3V
Float Voltage	13.5V
Lithium Maintenance Charge	13.9V
Stand by Current	0.003A
Minimum Input Startup Voltage	12V
Maximum Operating Temperature	70°C
Dimensions (L x W x H)	162 x 71.5 x 32.2 mm

TECHNICAL SPECS - BTDBM

Input voltage	5v to 17v
Current draw	35mA running - 0.4mA standby
Accuracy	50mV
Dimensions	L X W X H 59mm x 44mm x 21mm
Connections	1.5M 4-Core Cable

DUAL BATTERY MONITOR

- Small, dash mounted unit is vital for both single and dual battery monitoring.
- Visual indications of low battery (<11.00v) and over voltage (>15.00v)
- Auto dimming display for low light conditions without the need for an extra wire to the vehicle
- Measurements displayed both in 0.01v increments as well as bar graph
- Can be used in both dual battery mode or single battery mode
- Supplied with easy attached Velcro (so no drilling is required)

Blue Smart Charger

IP65

The professional's choice



victron energy
BLUE POWER

5
YEAR
WARRANTY



- Water, dust and chemical resistant
- Seven step smart charge algorithm
- Recovery of fully discharged 'dead' batteries
- Automatic power supply function
- Severe cold performance: down to -30°C
- Several other battery life enhancing features
- Low power mode to charge smaller batteries
- Li-ion battery mode
- Setup and configure, readout of voltage and current by Bluetooth Smart



VICTRON Blue Smart IP65 Charger with DC Connector



The **Blue Smart IP65 Charger** is the new professional battery charger with built-in Bluetooth®. The Blue Smart IP65 Charger can be used on devices in your workshop and on motor vehicles, such as (classic) cars; motorbikes; boats and camper-vans.

The 7-step charging algorithm gets the best out of your battery. The charger gives the battery the power it needs, maintains its health, and ensures better performance and a longer life.

The charger comes with both alligator clamps and M8 eyelets - making it easy to connect to the battery. If you wish, you can leave it permanently connected.

The Blue Smart IP65 is equipped with built-in Bluetooth®, so the status of the charger and the battery can be checked on a smartphone, tablet or laptop. All settings of the charger can be configured with the VictronConnect app.

The key features of the new Blue Smart IP65 Charger range are:

- Setup and configure, readout of voltage and current by Bluetooth® Smart
- Water, dust and chemical resistant
- 7-step smart charge algorithm
- Recovery of fully discharged 'dead' batteries
- Automatic power supply function
- Automatic compensation for high or low temperature
- Several other battery life enhancing features
- Low power mode to charge smaller batteries
- Li-ion battery mode



Accessories included with your Blue Smart charger

- Alligator clamps
- M8 eyelet connectors

Technical Data	12V/4A	12V/5A	12V/7A	12V/10A	12V/15A
Part Number	BPC120431014R	BPC120533014R	BPC120731014R	BPC121031014R	BPC121531014R
Input Voltage Range	180-265 VAC				
Efficiency	94%				
Standby Power Consumption	0.5 W				
Charge Voltage 'Absorption'	Normal: 14.4V, High: 14.7V, Li-ion: 14.2V				
Charge Voltage 'Float'	Normal: 13.8V, High: 13.8V, Li-ion: 13.5V				
Charge Voltage 'Storage'	Normal: 13.2V, High: 13.2V, Li-ion: 13.5V				
Can be used as power supply?	Yes				
Protection	Reverse polarity, Output short circuit, Over temperature				
Operating Temp. Range	-30 to +50°C (full rated output up to 30°C) (cables retain flexibility at low temperature)				
Dimensions (L x W x H)	60 x 105 x 190 mm	60 x 105 x 190 mm	47 x 95 x 190 mm	60 x 105 x 190 mm	60 x 105 x 190 mm

Technical Data	24V/5A	24V/8A
Part Number	BPC240531014R	BPC240831014R
Input Voltage Range	180-265 VAC	
Efficiency	95%	
Standby Power Consumption	0.5W	
Charge Voltage 'Absorption'	Normal: 28.8V, High: 29.4V, Li-ion: 28.4V	
Charge Voltage 'Float'	Normal: 27.6V, High: 27.6V, Li-ion: 27.0V	
Charge Voltage 'Storage'	Normal: 26.4V, High: 26.4V, Li-ion: 27.0V	
Can be used as power supply?	Yes	
Protection	Reverse polarity, Output short circuit, Over temperature	
Operating Temp. Range	-30 to +50°C (full rated output up to 30°C) (cables retain flexibility at low temperature)	
Dimensions (L x W x H)	47 x 95 x 190 mm	60 x 105 x 190 mm

VICTRON Blue Smart IP67 Charger

The Blue Smart IP67 Waterproof Charger is the new professional battery charger with built-in Bluetooth®. The Blue Smart IP67 Waterproof Charger can be used on devices in your workshop and on motor vehicles, such as (classic) cars; motorbikes; boats and camper-vans.

- Charges Li-ion (LiFePO4) batteries
- Protected against overheating
- High efficiency
- IP67 Waterproof and shockproof
- Bluetooth® smart enabled - monitor remotely via smartphone or laptop



Adaptive 5-stage charge algorithm: bulk – absorption – recondition – float – storage

The Blue Smart Charger features microprocessor controlled adaptive battery management. The 'adaptive' feature will automatically optimise the charging process relative to the way the battery is being used.

Storage mode: less maintenance and aging when the battery is not in use

The storage mode kicks in whenever the battery has not been subjected to discharge during 24hrs. In the storage mode, float voltage is reduced to 2.2v/cell (13.2 for a 12v battery) to minimise gassing and corrosion of the positive plates. Once a week the voltage is raised back to the absorption level to 'equalize' the battery. This feature prevents stratification of the electrolyte and sulphation, a major cause of early battery failure.

Technical Data	12V/7A	12V/17A	12V/25A	24V/5A	24V/12A
Part Number	BPC120713016	BPC121713016	BPC122513016	BPC240513006	BPC241213016
Input Voltage Range	180-265 VAC 45-65Hz				
Efficiency	93%	95%	95%	94%	96%
Standby Power Consumption	0.5 W				
Charge Voltage 'Absorption'	Normal: 14.4V, High: 14.7V, Li-ion: 14.2V			Normal: 28.4V, High: 29.4V, Li-ion: 28.4V	
Charge Voltage 'Float'	Normal: 13.8V, High: 13.8V, Li-ion: 13.5V			Normal: 27.6V, High: 27.6V, Li-ion: 27.0V	
Charge Voltage 'Storage'	Normal: 13.2V, High: 13.2V, Li-ion: 13.5V			Normal: 26.4V, High: 26.4V, Li-ion: 27.0V	
Can be used as power supply?	Yes				
Protection	Reverse polarity, Output short circuit, Over temperature				
Operating Temp. Range	-20 to +60°C (full rated output up to 40°C)				
Dimensions (L x W x H)	85 x 211 x 60 mm	99 x 219 x 65 mm	99 x 219 x 65 mm	85 x 211 x 60 mm	99 x 219 x 65 mm

VICTON Blue Smart IP22 Charger

The Blue Smart IP22 Charger is the new professional battery charger with built-in Bluetooth®. The Blue Smart IP22 Charger is the wireless solution to monitor voltage and current, with lithium charging capabilities.

High efficiency, with up to 94% efficiency, these chargers generate up to four times less heat when compared to the industry standard. Once the battery is fully charged, power consumption reduces to 0.5 Watt, some five to ten times better than the industry standard.

Adaptive 6-stage charge algorithm: test - bulk – absorption - recondition – float – storage The Blue Smart Charger features a microprocessor controlled 'adaptive' battery management. The adaptive feature will automatically optimize the charging process relative to the way the battery is being used.



Technical Data	12/30 (1)	12/30 (3)	24/16 (1)	24/16 (3)
Part Number	BPC123042012	BPC123044012	BPC241642012	BPC241644012
Input Voltage Range	180–265 VAC		180–265 VAC	
Charging Current	15 / 20 / 30 Amps		8 / 12 / 16 Amps	
Frequency	45–65 Hz		45–65 Hz	
Number of Outputs	1	3	1	3
Protection	Battery reverse polarity (fuse)		Output short circuit	Over temperature
Insulation	IP22			
Dimensions (L x W x H)	235 x 108 x 65 mm			

VICTRON Centaur

Crucially, and unlike other products that state universal input, the Centaur range will maintain full output power within the entire specified range. The Centaur model will also work on 90-400VDC input, making it a perfect Charging DC-DC Converter in a Diesel Electric system. Other features include fully automatic 3-stage charge characteristic that ensures batteries are fully charged every time, and three isolated charge outputs for multi battery configurations to suit the majority of typical installations.

- Three outputs which split the output current evenly
- Dip switch to optimise for Gel and AGM batteries
- 2 year warranty



Technical Data							
	12/20 (3)	12/30 (3)	12/40 (3)	12/50 (3)	12/60 (3)	12/80 (3)	12/100 (3)
Part Number	CCH012020000	CCH012030000	CCH012040000	CCH012050000	CCH012060000	CCH012080000	CCH012100000
Charging Voltage	14.2 / 14.35 / 14.4 / 14.85 V DC						
Charging Current	20A	30A	40A	50A	60A	80A	100A
Type Of Charger	3-step battery charger						
Type Of Battery	Flooded Lead-acid, Gel-Cell or AGM						
Battery Capacity	80 - 200Ah	120-300Ah	160-400Ah	200-500Ah	240-600Ah	320-800Ah	400-1000Ah
Insulation	IP20	IP20	IP20	IP20	IP20	IP20	IP20
Dimensions(LxWxH)	355x215x110mm	355x215x110mm	426 x 239 x 135mm	426 x 239 x 135mm	426 x 239 x 135mm	505x255x130mm	505x255x130mm

Technical Data				
	24/16 (3)	24/30 (3)	24/40 (3)	24/60 (3)
Part Number	CCH024016000	CCH024030000	CCH024040000	CCH024060000
Charging Voltage	28.4 / 28.7 / 29.0 / 29.7 V DC			
Charging Current	16A	30A	40A	60A
Type Of Charger	3-step battery charger			
Type Of Battery	Flooded Lead-acid, Gel-Cell or AGM			
Battery Capacity	45-150Ah	120-300Ah	160-400Ah	240-600Ah
Insulation	IP20	IP20	IP20	IP20
Dimensions (L x W x H)	355 x 215 x 110 mm	426 x 239 x 135 mm	505 x 255 x 130 mm	505 x 255 x 130 mm

VICTRON Phoenix

The Phoenix charger features a microprocessor controlled adaptive battery management system that can be preset to suit different types of batteries. The adaptive feature will automatically optimise the process relative to the way the battery is being used.

- Adaptive 4-stage charge characteristic: bulk - absorption - float - storage
- Less maintenance and ageing when the battery is not in use
- Three outputs to charge 3 battery banks (two main and one trickle)
- 2 year warranty



Technical Data				
	12/30A 2+1C (4A)	12/50A 2+1C (4A)	24/16A 2+1C (4A)	24/25A 2+1C (4A)
Part Number	PCH012030001	PCH012050001	PCH024016001	PCH024025001
Charging Voltage	12-16V DC	12-16V DC	24-32V DC	24-32V DC
Charging Current	30A	50A	16A	25A
Type Of Charger	4-step adaptive battery charger			
Type Of Battery	Flooded, AGM, GEL			
Battery Capacity	100-400Ah	200-800Ah	100-200Ah	100-400Ah
Insulation	IP21	IP21	IP21	IP21
Dimensions (L x W x H)	350 x 200 x 108 mm	350 x 200 x 108 mm	350 x 200 x 108 mm	350 x 200 x 108 mm

VICTRON Skylla TG IP21 24/48V

Perfect chargers for any type of battery. Charge voltage can be precisely adjusted to suit any sealed or unsealed battery system. In particular, sealed maintenance free batteries must be charged correctly in order to ensure a long service life. Overvoltage will result in excessive gassing and venting of a sealed battery. The battery will dry out and fail.

Suitable for AC and DC supply (AC-DC and DC-DC operation): except for the 3-phase input models, the chargers also accept a DC supply.

Controlled charging: every TG Charger has a microprocessor, which accurately controls the charging in three steps. The charging process takes place in accordance with the IUoUo characteristic and charges more rapidly than other processes.

Use of TG Charger as a power supply: as a result of the perfectly stabilized output voltage, a TG Charger can be used as a power supply if batteries or large buffer capacitors are not available.

Two outputs to charge 2 battery banks (24V models only): the TG Chargers feature 2 isolated outputs. The second output, limited to approximately 4A and with a slightly lower output voltage, is intended to top up a starter battery.



Technical Data	24/30 GMDSS	24/30 (1+1)GL	24/50 (1+1)GL	24/50 GMDSS	24/100 (1+1)
Part Number	SDTG2400302	SDTG2400303	SDTG2400503	SDTG2400504	SDTG2401003
Charging Voltage	28.5V DC	28.5V DC	28.5V DC	28.5V DC	28.5V DC
Charging Current	30A	30A	50A	50A	100A
Type Of Charger	3-step battery charger				
Type Of Battery	Flooded, AGM, GEL				
Battery Capacity		150-300Ah	250-500Ah		500-1000Ah
Input Voltage Range (V AC)	90 - 265	90 - 265	90 - 265	90 - 265	90 - 265
Insulation	IP21				
Dimensions (L x W x H)	485 x 250 x 147 mm	365 x 250 x 147 mm	365 x 250 x 147 mm	485 x 250 x 147 mm	365 x 250 x 257 mm

Technical Data	24/100 (1+1) 230V	24/100 3-phase 400V	24/30 (1+1) 230V	24/50 (1+1) 230V	24/50 (1+1) 3-phase 400V
Part Number	SDTG2401001	STG024100300	SDTG2400301	SDTG2400501	STG024050300
Charging Voltage	28.5V DC	28.5V DC	28.5V DC	28.5V DC	28.5V DC
Charging Current	100	100	30	50	50
Type Of Charger	3-step battery charger				
Type Of Battery	Flooded, AGM, GEL				
Battery Capacity	500-1000Ah	500-1000Ah	150-500Ah	150-500Ah	250-500Ah
Insulation	IP21				
Dimensions (L x W x H)	365 x 250 x 257 mm	515 x 260 x 265 mm	365 x 250 x 147 mm	365 x 250 x 147 mm	365 x 250 x 257 mm

Technical Data	24/80 (1+1) 230V	48/25 (1) 230V	48/50 (1) 230V
Part Number	SDTG2400801	SDTG4800251	SDTG4800501
Charging Voltage	28.5V DC	57V DC	57V DC
Charging Current	80	25	50
Type Of Charger	3-step battery charger		
Type Of Battery	Flooded, AGM, GEL		
Battery Capacity	400-800Ah	125-250Ah	250-500Ah
Insulation	IP21		
Dimensions (L x W x H)	365 x 250 x 247 mm	365 x 250 x 147 mm	365 x 250 x 257 mm

GL: Germanischer Lloyd approval

GMDSS The Global Maritime Distress & Safety System (GMDSS)

1+1: Two outputs to charge 2 battery banks

VICTRON Skylla IP44

Skylla-IP44 (1+1): two outputs to charge 2 battery banks. The Skylla-IP44 (1+1) features 2 isolated outputs. The second output, limited to approximately 3A and with a slightly lower output voltage, is intended to top up a starter battery.

Skylla-IP44 (3): three full current outputs to charge 3 battery banks. The Skylla-IP44 (3) features 3 isolated outputs. All outputs can supply the full rated output current.

- IP44 protection
- LCD Display
- **Battery Safe mode:** automatically limits the rate of voltage increase
- **Storage mode:** the Storage mode kicks in whenever the battery has not been subjected to discharge during 24 hours



Technical Data	12/60 (1+1)	12/60 (3)	24/30 (1+1)	24/30 (3)
Part Number	SKY012060000	SKY012060100	SKY024030000	SKY024030100
Input Voltage (VAC)	120/230V			
Input Voltage Range (VAC)	90-265V			
Max. AC input Current @ 100 VAC	10A			
Type Of Battery	Flooded, AGM, GEL			
Battery Capacity	300-600 Ah	300-600 Ah	150-300 Ah	150-300 Ah
Dimensions (L x W x H)	401 x 375 x 265 mm			

VICTRON Skylla-i

Skylla-i (1+1): two outputs to charge 2 battery banks. The Skylla-i (1+1) features 2 isolated outputs. The second output, limited to approximately 4 A and with a slightly lower output voltage, is intended to top up a starter battery.

Skylla-i (3): three full current outputs to charge 3 battery banks. The Skylla-i (3) features 3 isolated outputs. All outputs can supply the full rated output current.

- The right amount of charge for a lead-acid battery: variable absorption time
- BatterySafe mode: preventing damage due to excessive gassing
- Storage mode: less maintenance and aging when the battery is not in use
- Every Skylla-i comes with a battery temperature sensor



Technical Data	24/80 (1+1)	24/80 (3)	24/100 (1+1)	24/100 (3)
Part Number	SKI024080000	SKI024080002	SKI024100000	SKI024100002
Input Voltage (VAC)	230V			
Input Voltage Range (VAC)	185-265V			
Input Voltage Range (VDC)	180-350V			
Max. AC input Current @ 180 VAC	16A	16A	20A	20A
Type Of Battery	Flooded, AGM, GEL			
Battery Capacity	400-800Ah	400-800Ah	500-1000Ah	500-1000Ah
Dimensions (L x W x H)	405 x 250 x 150 mm			

VICTRON ACCESSORIES

Accessories for BlueSmart & BluePower IP65 Chargers

Part Number	Description
BPC900100014	M6 eyelet connector (with 30A ATO fuse)
BPC900110014	M8 eyelet connector (with 30A ATO fuse)
BPC900200014	2m extension cable
BPC900300004	12V plug (cigarette plug with 16A fuse)
BPC900400004	Clamp connector (with 30A ATO fuse)
BPC900110114	Battery Indicator Panel (M8 eyelet connector / 30A ATO)
BPC900120114	Battery Indicator Eyelet (M8 eyelet / 30A ATO fuse)



VICTRON Control Panels

Part Number	Description
REC020003000	VE Bus Multi Control 12V & 24V (16A / 200A)
REC020003000	VE Bus Multi Control 12V & 24V (16A / 200A)
REC020005000	Digital Multi Control 200A/200A
REC040001000	Battery Alarm



VICTRON Data Cables and Interfaces

Part Number	Description
ASS030120200	VE Interface MK2.2B (VE Bus to RS232)
ASS030130000	VE Interface MK2-USB (VE Bus to USB)
ASS030520100	VE.Bus to NMEA2000 Interface
ASS030400000	VE Net to E-PLEX Converter
ASS030402010	BMV60xS to E-PLEX Interface
ASS030520000	BMV60xS to NMEA2000 Interface
ASS030200000	RS32 to USB converter
ASS030530203	VE.Direct Cable 0.3m
ASS030530209	VE.Direct Cable 0.9m
ASS030530218	VE.Direct Cable 1.8m
ASS030530230	VE.Direct Cable 3m
ASS030530250	VE.Direct Cable 5m
ASS030530310	VE.Direct Cable 10m
W2655BLU	UTP Patch Lead 5M Lead - RJ45 UTP



VICTRON VE Net

Part Number	Description
VPN000100000	VE Net Panel 16/200A
BPP000200010	VE Net Blue Power Panel 2 (Aluminium housing with screw holes)
BPP000200110R	VE Net Blue Power Panel GX (Plastic housing with mount plate)
VBC000300000	VE Net Battery Controller (VBC) 12V/24V/48V Inc.500A/50mA Shunt & Conns Kit
VBC000500000	VE Net Battery Controller 70-350V Inc.500A/50mA Shunt in plastic enclosure and kit
VVC000200000	VE Net to VE Bus Converter
VGM000100000	VE Net Generator Controller Inc. AC Monitor Box



STERLING POWER

STERLING Pro Charge Ultra **SPCU1220 - SPCU2430**

The Sterling Pro Charge Ultra was designed to be the ultimate in global battery charging. It's ultra-efficient and amazingly versatile. With 11 pre-programmed battery charge curves, it can even be programmed (without a computer!) for any other type of battery - including lithium.

- High detail 32 LED panel which gives you full control
- 11 pre-programmed battery charge curves
- Real time current and voltage meters
- Global application 90V - 270V (40-70hz)
- Power meter which shows the charger capacity
- Digital microprocessor controlled high voltage protection
- An emergency backup analogue controlled high voltage trip
- Stand-by mode which increases battery life
- High Voltage de-sulphation cycle
- 2 year warranty



Technical Data					
Part Number	SPCU1220	SPCS1240	SPCU1260	SPCU2420	SPCU2430
Charging Voltage	14 - 15.1V	14 - 15.1V	14 - 15.1V	28 - 30.2V	28 - 30.2V
Charging Current	20A	40A	60A	20A	30A
Type Of Charger	4-step battery charger with 11 different charging curves				
Type Of Battery	LiFePO4, GEL, AGM, FLA and calcium				
Battery Capacity	<300Ah	<600Ah	<900Ah	<300Ah	<450Ah
Number of Outputs	3 battery outputs				
Insulation	IP42				
Dimensions (L x W x H)	260 x 215 x 90 mm		315x215x90 mm		

STERLING Pro Charge B

BBW1220 - BBW1236

The Sterling Pro Charge B is the ideal DC-DC charger for the fisherman with a petrol start motor and a secondary electric motor. It's adaptable and able to charge GEL, AGM or flooded lead acid batteries. It's robust, being IP68 waterproof and submersible to 1m. It's versatile, able to be permanently mounted in your boat or, with the addition of a Baintech Anderson plug, can easily be unplugged and swapped into another vehicle. Coming with everything you need, including 2m of pre-wired, thicker quality cables with a fuse for increased safety, the Sterling Pro Charge B is easy to DIY install.

- Waterproof with IP68 Protection
- Great for dual motor systems
- 2 year warranty



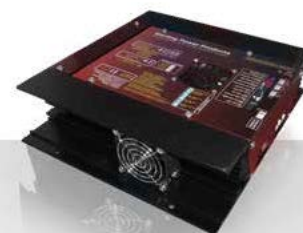
Technical Data			
Part Number	BBW1220	BBW1224	BBW1236
DC Input Voltage	12V DC	12V DC	12V DC
DC Output Voltage	12V DC	24V DC	36V DC
Amps In	30A	30A	25A
Amps Out	30A	15A	10A
Type Of Charger	3-step DC-DC Charger		
Type Of Battery	Flooded Lead Acid batteries, GEL, AGM		
Battery Capacity	<300Ah	<200Ah	<100Ah
Insulation	IP68	IP68	IP68
Dimensions (L x W x H)	230 x 165 65 mm		

STERLING DC to DC

SBB2430 - SBB241230

The Sterling DC to DC is a Battery to Battery charger which charges your extra battery system about 5 times faster, and puts about 50% extra use full power into them. It also increases the life of your battery with a desuphation cycle, and is easy to DIY install.

- Digital software controlled
- Isolated outputs
- 2 year warranty



Technical Data						
Part Number	SBB2430	SBB1250	SBB1230	SBB1260	SBB241230	SBB241230
Nominal Voltage	24V DC	12V DC	12V DC	12V DC	12/24V DC	24/24V DC
Amps In	30A	50A	30A	60A	30A	35A
Amps Out (Max)	27A	45A	27A	54A	27A	31.5A
Type Of Charger	3 step DC-DC charger					
Type Of Battery	Flooded, AGM, GEL, Sealed					
Battery Capacity	<405Ah	<675 Ah			<405 Ah	
Insulation	IP30	IP30	IP30	IP30	IP30	IP30
Dimensions (L x W x H)	200x270x70 mm	200x270x70 mm	200x270x50 mm	200x270x70 mm	200 x 270 x 70 mm	200 x 270 x 70 mm



LIVE THE GOOD TIMES

BAINTECH Battery Charger

BTPB360 & BTPB600

The Baintech Battery Chargers are robust multi-stage automatic microprocessor controlled battery chargers, with adjustable voltage.

- LED status indicator
- 3 year warranty



BTPB600

Technical Data		
	BTPB360	BTPB600
Charging Voltage	13.8 - 15V	14.4V
Charging Current	24.3A	40A
Type Of Charger	3-step	8 or 2-step
Type Of Battery	Sealed and Open Lead Acid	
Battery Capacity	135-400Ah	200 - 600Ah
Insulation	IP22	IP22
Dimensions (L x W x H)	253 x 135 x 48.5 mm	230 x 158 x 67 mm

BAINTECH Power Supply 240V AC 12V

BTPP12/200 & BTPP12/320

Baintech Power Supply 200W and 320W are reliable switching power supplies with Power Factor Correction (PFC) to offer the best of clean, low ripple, regulated DC power that is totally protected against user errors and malfunction.

Our power supplies are safe, with short-circuit, over load, over voltage and temperature protection, with a built in fan speed control to help keep the unit cool.



Technical Data		
Part Number	BTPP12/200	BTPP12/320
DC Voltage	12V	12V
Dimensions (L x W x H)	199 x 99 x 50 mm	215 x 115 x 50 mm
Efficiency	80%	86%
Frequency Range	47-63 Hz	47-63Hz
Load Regulation	0.50%	0.50%
Power Factor	PF>/230vac 0.93	PF>/230V AC 0.95
Rated Current	16.5A	25A
Rated Power	200W	320W
Ripple & Noise	100mV p-p	150mV p-p
Voltage Adj. Range	11.4 – 13.2V	10.0 – 13.2V
Voltage Range	120 –320V AC	120 – 320V AC



DC-DC CONVERTERS

VICTRON Buck-Boost DC/DC Converter 25A + 50A

The Buck-Boost DC-DC Converter is for charging a 12V or 24V service battery in vehicles with a smart alternator (regenerative braking, Euro 5 and Euro 6 engines). The converter will charge the auxiliary battery with a pre-set charge voltage, eliminating high voltages (e.g. Mercedes: 15.4V) and low voltages.

One product for 12V, 24V and 12/24V systems. The converter can be programmed to charge a 12V or a 24V auxiliary battery from either a 12V or a 24V alternator and starter battery.

Technical Data	25A	50A
Part Number	ORI303025000	ORI303050000
Input Voltage Range	7-35V	7-35V
Under Voltage Threshold	10V	10V
Output Voltage Range	2-30V	2-30V
Maximum Charge Current	12V : 25A 24V : 15A	12V : 50A 24V : 25A
Operating Temperature Range	-25 +80°C	-25 +80°C
Dimensions (L x W x H)	165 x 120 x 30 mm	213 x 120 x 30 mm



VICTRON Orion IP67 24/12 DC-DC

Completely encapsulated: waterproof, shockproof and ignition protected. Water, oil or dirt will not damage the Orion IP67 DC-DC Converter.

Wide input voltage range: with 15V to 40V input range, a stable output is ensured during surges or sags due to other equipment connected to same battery.

Available in	Part No.
Orion IP67 24/12-5 (60W)	ORI241205060
Orion IP67 24/12-10 (120W)	ORI241210060
Orion IP67 24/12-20 (240W)	ORI241220060



VICTRON Orion DC-DC Converters - High Power Non-Isolated

The remote on-off eliminates the need for a high current switch in the input wiring. The remote on-off can be operated with a low power switch or by the engine run/stop switch (see manual).

All models with adjustable output can also be used as a battery charger. For example, to charge a 12V starter or accessory battery in an otherwise 24V system.

All models with adjustable output can be paralleled to increase output current. Up to five units can be connected in parallel.

Models:
12V / 24V

Available in	Part No.
Victron Orion Dc-Dc Converter Non Isolated 12V To 24V - 8A	ORI122408020
Victron Orion Dc-Dc Converter Non Isolated 12V To 24V - 10A	ORI122410020
Victron Orion Dc-Dc Converter Non Isolated 24V To 12V - 25A	ORI241225020
Victron Orion Dc-Dc Converter Non Isolated 24V To 12V - 40A	ORI241240021
Victron Orion Dc-Dc Converter Non Isolated 24V To 12V - 70A	ORI241270020



12/24 - 8A



24/12 - 70A

VICTRON Orion Isolated DC-DC Converters

An ever-increasing amount of electric equipment is being used on vehicles and boats. Most low-voltage equipment, such as navigation and radio equipment, mobile telephones or car hi-fi systems, is designed for 12 volts, Victron Energy supplies DC/DC converters which deliver a stable 12V supply from a 24V system.

- High efficiency and absolute safety
- Possibly the widest range of converters on the market
- Adjustable output voltage & ignition sense function (25A - 70A models only)*
- 5 year warranty

Available in	Part no.	Input voltage range
12		
Orion-Tr 12/12-9A (110W)	ORI121210110(R)	8-17V
Orion-Tr 12/12-18A (220W)	ORI121222110	8-17V
Orion-Tr 12/12-30A (360W)	ORI122441110	10-17V
Orion-Tr 12/24-5A (120W)	ORI122410110	8-17V
Orion-Tr 12/24-10 (240W)	ORI122424110	8-17V
Orion-Tr 12/24-15A (360W)	ORI122441110	10-17V
24		
Orion-Tr 24/12-9A (110W)	ORI241210110(R)	16-35V
Orion-Tr 24/12-20A (240W)	ORI241220200	16-35V
Orion-Tr 24/12-30A (360W)	ORI241240110	20-35V
Orion-Tr 24/12-5A (60W)	ORI241205200	
Orion-Tr 24/12-10A (120W)	ORI241210200R	
Orion-Tr 24/12-15A (180W)	ORI241215200R	
Orion-Tr 24/24-5A (120W)	ORI242410110(R)	16-35V
Orion-Tr 24/24-12A (280W)	ORI242428110	16-35V
Orion-Tr 24/24-17A (400W)	ORI242441110	20-35V
Orion-Tr 24/48-2.5A (120W)	ORI244810110	16-35V
Orion-Tr 24/48-6A (280W)	ORI244828110	16-35V
Orion-Tr 24/48-8.5A (400W)	ORI244841110	20-35V
48		
Orion-Tr 48/12-9A (110W)	ORI481210110	32-70V
Orion-Tr 48/12-20A (240W)	ORI481224110	32-70V
Orion-Tr 48/12-30A (360W)	ORI481240110	40-70V
Orion-Tr 48/24-5A (120W)	ORI482410110	32-70V
Orion-Tr 48/24-12A (280W)	ORI482428110	32-70V
Orion-Tr 48/24-16A (380W)	ORI482441110	40-70V
Orion-Tr 48/48-2.5A (120W)	ORI484810110	32-70V
Orion-Tr 48/48-6A (280W)	ORI484828110	32-70V
Orion-Tr 48/48-8A (380W)	ORI484841110	40-70V



All models are short circuit proof and can be paralleled to increase output current. An unlimited number of units can be connected in parallel.

IP43 protection

When installed with the screw terminals oriented downwards.

Models:

12 / 24 / 48 Volt

VICTRON Orion Isolated DC-DC Converters (360W)

Available in	Part no.	Input voltage range
VICTRON ORION 12/24-15A (360W)	ORI122436100	12V (9 – 18V)
VICTRON ORION 24/12-30A (360W)	ORI241236100	24V (20 – 35V)
VICTRON ORION 24/24-15A (360W)	ORI242436100	24V (20 – 35V)
VICTRON ORION 24/48-7.5A (360W)	ORI244836100	24V (20 – 35V)
VICTRON ORION DC-DC CONVERTER ISOLATED 12.5V/30A OR 24V/15A-360W	ORI121236100	12V (9 – 18V) 24V (20 – 35V)

INVERTERS



VICTRON Phoenix Inverter Compact 12V / 24V

The Phoenix Inverter Compact is a pure sine wave inverter with high efficiency. It is developed for professional duty and suitable for a wide range of applications.

Phoenix Inverters are well suited to power up difficult loads such as refrigeration compressors, electric motors and similar appliances.

Virtually unlimited power thanks to parallel and 3-phase operation capability Up to 6 inverters can operate in parallel to achieve higher power output. Six 24/5000 units, for example, will provide 24kW / 30kVA output power. Operation in 3-phase configuration is also possible.



Technical information	12/1200 24/1200	12/1600 24/1600	12/2000 24/2000
Part Number 230V VE.BUS	CIN121220000 CIN241220000	CIN121620000 CIN241620000	CIN122200000 CIN242200000
Input Voltage Range (V DC)	9.5 - 17V 19 - 33V 38 - 66V		
Output	Output voltage: 230 VAC ±2% Frequency: 50 Hz ± 0,1% (1)		
Peak Power	2400W	3000W	4000W
Max. Efficiency 12/ 24 /48 V (%)	92 / 94 / 94	92 / 94 / 94	92 / 92
Dimensions (L x W x H)	375 x 214 x 110 mm	375 x 214 x 110 mm	520 x 255 x 125 mm
Weight	10kg	12kg	12kg

VICTRON Phoenix Inverter VE.BUS 230V 12V / 24V / 48V

Pure sine wave output, high peak power and high efficiency. Combined high frequency and line frequency technologies ensure the best of both worlds.

Employing hybrid HF technology, the result is a top quality product with compact dimensions, light in weight and capable of supplying power, problem free, to any load.



Technical information	12/1200	12/3000 24/3000 48/3000	24/5000 48/5000
Part Number 230V VE.BUS	PIN121220300	PIN123020000 PIN243020000 PIN483020000	PIN245020000 PIN485020000
Input Voltage Range (V DC)	9.5 - 17V 19 - 33V 38 - 66V		
Output	Output voltage: 230 VAC ±2% Frequency: 50 Hz ± 0,1% (1)		
Peak Power	2400W	6000W	10,000W
Max. Efficiency 12/ 24 /48 V (%)	92 / 94 / 94	93 / 94 / 95	94 / 95
Dimensions (L x W x H)	375 x 214 x 110 mm	362 x 258 x 218 mm	444 x 328 x 240 mm
Weight	10kg	18kg	30kg

VICTRON Phoenix Inverter VE.BUS 120V

Technical information	12/3000	24/3000
Part Number	PIN123020100	PIN243020100
Input Voltage Range (V DC)	9.5 - 17V	19 - 33V
Output	Output voltage: 120 VAC ±2% Frequency: 60 Hz ± 0,1% (1)	
Peak Power	6000W	6000W
Max. efficiency 12/ 24 /48 V (%)	93	94
Dimensions (L x W x H)	362 x 258 x 218 mm	
Weight	18kg	

VICTRON Phoenix Inverter VE.Direct 250VA - 1200VA

12V / 24V / 48V

Proven reliability, the full bridge plus toroidal transformer topology has proven its reliability over many years. The inverters are short circuit proof and protected against overheating, whether due to overload or high ambient temperature. High start-up power needed to start loads, such as power converters for LED lamps, halogen lamps or electric tools.

VE.Direct Communication Port :

The VE.Direct port can be connected to:

- A computer (VE.Direct to USB interface cable needed)
- iOS and Android smartphones, tablets, macbooks and other devices (VE.Direct Bluetooth® Smart dongle needed)

Fully configurable:

- Low battery voltage alarm trip and reset levels
- Low battery voltage cut-off and restart levels
- Output voltage 210 - 245V
- Frequency 50 Hz or 60 Hz
- ECO mode on/off and ECO mode sense level

Monitoring:

- In and output voltage and current alarms



Technical information						
Phoenix Inverter	12V 24V 48V	12/250 24/250 48/250	12/375 24/375 48/375	12/500 24/500 48/500	12/800 24/800 48/800	12/1200 24/1200 48/1200
Part Number		PIN122510300 PIN242510300 PIN482510200	PIN123750300 PIN243750300 PIN483750200	PIN125010300 PIN245010300 PIN485010100	PIN121800300 PIN241800300 PIN481800300	PIN121220300 PIN242120300 PIN482120100
Cont. Power at 25°C (1)		250VA	375VA	500VA	800VA	1200VA
Cont. Power at 25°C / 40°C		200 / 175W	300 / 260W	400 / 350W	650 / 560W	1000 / 850W
Peak Power		400W	700W	900W	1500W	2200W
Output AC Voltage / Frequency (adjustable)	230VAC +/- 3% 50Hz or 60Hz +/- 0.1%					
Input Voltage Range	9.2 - 17 / 18.4 - 34.0 / 36.8 - 62.0V					
DC Low Shut Down (adjustable)	9.3 / 18.6 / 37.2V					
DC Low Restart and Alarm (adjustable)	10.9 / 21.8 / 43.6V					
Battery Charged Detect (adjustable)	14.0 / 28.0 / 56.0V					
Max. Efficiency		87 / 88 / 88%	89 / 89 / 90%	90 / 90 / 91%	90 / 90 / 91%	90 / 90 / 91%
Zero-load Power		4.2 / 5.2 / 7.9W	5.6 / 6.1 / 8.5W	6 / 6.5 / 9W	6.5 / 7 / 9.5W	7 / 8 / 10W
Humidity (non-condensing)	max 95%					
Weight		2.4kg	3.0kg	3.9kg	5.5kg	7.4kg
Dimensions (L X W X H)		86 x 165 x 260 mm	86 x 165 x 260 mm	86 x 172 x 275 mm	105 x 216 x 305 mm	117 x 232 x 327 mm



INVERTER CHARGERS

VICTRON MultiPlus Compact Inverter/Charger 120V

The MultiPlus is a powerful true sine wave inverter; a sophisticated battery charger that features adaptive charge technology, and a high-speed AC transfer switch in a single compact enclosure.

- Virtually unlimited power thanks to parallel operation
- Power Assist feature – assists the shore/generator power by utilising the battery bank
- 5 year warranty



Technical Data	MULTIPLUS COMPACT 12/2000/80-50 120V VE.BUS	MULTIPLUS COMPACT 24/2000/50-50 120V VE.BUS
Part Number	CMP122200100	CMP242200100
Input Voltage Range (V DC)	9,5 – 17V	19 – 33V
Output	Output voltage: 120 VAC ± 2% Frequency: 60 Hz ± 0,1% (1)	
Peak Power	4000W	
Maximum efficiency (%)	92 / 94	
AC Input	Input voltage range: 95-140 VAC Input frequency: 45 – 65 Hz Power factor: 1	
Charge Voltage 'absorption' (V DC)	14,4 / 28,8	
Charge Current House Battery (A) (4)	80 / 50	
Battery Temperature Sensor	Yes	Yes

VICTRON Compact Inverter/Charger 240V

The MultiPlus is a powerful true sine wave inverter; a sophisticated battery charger that features adaptive charge technology, and a high-speed AC transfer switch in a single compact enclosure.

- Virtually unlimited power thanks to parallel operation
- Power Assist feature – boosting the capacity of shore or generator power
- 4-stage adaptive charger and dual bank battery charging
- Lithium-ion battery compatible
- 5 year warranty



Technical Data MultiPlus Compact 240V				
Description	C 12/800/35 C 24/ 800/16	C 12/1200/50 C 24/1200/25	C 12/1600/70 C 24/1600/40	C 12/2000/80 C 24/2000/50
Part Number	CMP128010000 CMP248010000	CMP121220000 CMP241220000	CMP121620000 CMP241620000	CMP122200000 CMP242200000
Input voltage range (V DC)	9,5 – 17 V		19 – 33 V	38 – 66 V
Output	Output voltage: 230 VAC ± 2%		Frequency: 50 Hz ± 0,1% (1)	
Peak power (W)	1600	2400	3000	4000
Maximum efficiency (%)	92 / 94	93 / 94	93 / 94	93 / 94
AC Input	Input voltage range: 187-265 VAC		Input frequency: 45 – 65 Hz	Power factor: 1
Charge voltage 'absorption' (V DC)	14,4 / 28,8 / 57,6			
Battery temperature sensor	yes			
230 V AC-connection	G-ST18i connector			Spring-clamp
Weight (kg)	10	10	10	12
Dimensions (hwxwd in mm)	375x214x110			520x255x125
Protection category	IP 21			

VICTRON MultiPlus Inverter/Charger

The MultiPlus is a powerful true sine wave inverter; a sophisticated battery charger that features adaptive charge technology, and a high-speed AC transfer switch in a single compact enclosure.

Two AC Outputs: the main output has no break functionality. The MultiPlus takes over the supply to the connected loads in the event of a grid failure or when shore/generator power is disconnected. This happens so fast (less than 20 milliseconds) that computers and other electronic equipment will continue to operate without disruption. The second output is live only when AC is available on the input of the MultiPlus. Loads that should not discharge the battery, like a water heater for example can be connected to this output (second output available on models rated at 3 kVA and more).

Solar Energy: AC power available even during a grid failure The MultiPlus can be used in off grid as well as grid connected PV and other alternative energy systems. Loss of mains detection software is available.

- Combined inverter and charger in one
- True sine wave inverter
- Virtually unlimited power thanks to parallel operation
- Power Assist feature – assists the shore/generator power by utilising the battery bank
- 5 year warranty



Technical Data 230VAC					
Description					
12V	MultiPlus 12/500/20	MultiPlus 12/800/35-16	MultiPlus 12/1200/50-16	MultiPlus 12/3000/120-16	
24V	MultiPlus 24/500/10	MultiPlus 24/800/16-16	MultiPlus 24/1200/25-16	MultiPlus 24/3000/120-50	MultiPlus 24/5000/120
48V	MultiPlus 48/500/6	MultiPlus 48/800/9-16	MultiPlus 48/1200/13-16	MultiPlus 24/3000/70-16 MultiPlus 24/3000/70-50 MultiPlus 48/3000/35-16 MultiPlus 48/3000/35-50	MultiPlus 48/5000/70
Part Number	CMP125010000 CMP245010000 CMP485010000	PMP121800000 PMP241800000 PMP481800000	PMP122120000 PMP242120000 PMP482120000	PMP123020001 PMP123021010 PMP243020001 PMP243021011 PMP483020001 PMP483021010	PMP245021010 PMP485021010
Transfer Switch	16A	16A	16A	16A OR 50A	100A
Input voltage range	9,5 – 17V		19 – 33V	38– 66V	
Output	Output voltage: 230VAC ± 2% Frequency: 50Hz ± 0,1% (1)				
Peak Power	900W	1600W	2400W	6000W	5000W
Maximum Efficiency	90 / 91 / 92%	92 / 93 / 94%	93 / 94/95%	93 / 94 / 95%	94 / 95%
AC Input	Input voltage range: 187-265 VAC Input frequency: 45 – 65 Hz				
Charge Voltage 'absorption'	14,4 / 28,8 / 57,6V				
Charge Current House Battery (4) 20/10/6A	20 / 10 / 6A	35 / 16 / 9A	50 / 25 / 13A	120 / 70 / 35A	120 / 70A
Battery Temperature Sensor	Yes				
230V AC-Connection	G-ST18i connector			Screw terminals 13 mm ² (6 AWG)	M6 bolts
Weight	4.4kg	6.4kg	8.2kg	18kg	30kg
Dimensions (LxWxH)	311 x 182 x 100 mm	360 x 240 x 100 mm	406 x 250 x 100 mm	362 x 258 x 218 mm	444 x 328 x 240 mm
Technical Data 120 VAC					
Description	12V 12/3000/120-50		24V 24/3000/70-50		
Part Number	PMP123021102		PMP243021102		
Output	Output voltage: 120 VAC ± 2% Frequency: 60 Hz ± 0,1% (1)				
AC Input	Input voltage range: 95-140 VAC		Input frequency: 45 – 65 Hz	Power factor: 1	
Peak Power	6000W		6000W		
Weight	19kg		19kg		
Dimensions (LxWxH)	362 x 258 x 218 mm		362 x 258 x 218 mm		

VICTRON Quattro Inverter/Charger

The Quattro is a sophisticated battery charger with adaptive charging technology as well as a powerful true sine wave inverter. The Quattro has a built-in transfer switch meaning it can automatically switch from off grid to battery power without any effort from the user.

- Able to use 2 x AC input sources, and will automatically choose the best suited
- 2 x AC outputs
- 5 year warranty



Technical Data 240V VE.BUS					
Description 12V 24V 48V	QUA12/3000/120-50/50 QUA24/3000/70-50/50	QUA12/5000/220-100/100 QUA24/5000/120-100/100 QUA48/5000/70-100/100	QUA24/8000/200-100/100 QUA48/8000/110-100/100	QUA48/10000/140-100/100	48/15000/200100/100
Part Number	QUA123020010 QUA243020010	QUA125020000 QUA245021010 QUA485021010	QUA248020010 QUA488024000	QUA481030010	QUA483150000
Input Voltage Range (V DC)	9.5 – 17V 19 – 33V 38 – 66V				
Output (1)	Output voltage: 230 VAC ± 2% Frequency: 50 Hz ± 0,1%				
Peak Power	6000W	10000W	16000W	20000W	25000W
Maximum Efficiency (%)	93/94	94 / 94 / 95	94 / 96	96	96
Charge Voltage 'absorption' (V DC)	14.4 / 28.8	14.4 / 28.8 / 57.6	28.8 / 57.6	57.6	57.6
Charge Current House Battery (4)	120 / 70A	220 / 120 / 70A	200 / 110A	140A	200A
Battery Temperature Sensor	yes				
Insulation	IP21	IP21	IP21	IP21	IP21
Dimensions (L x W x H)	362 x 258 x 218 mm	470 x 350 x 280 mm	470 x 350 x 280 mm	470 x 350 x 280 mm	572 x 488 x 344 mm

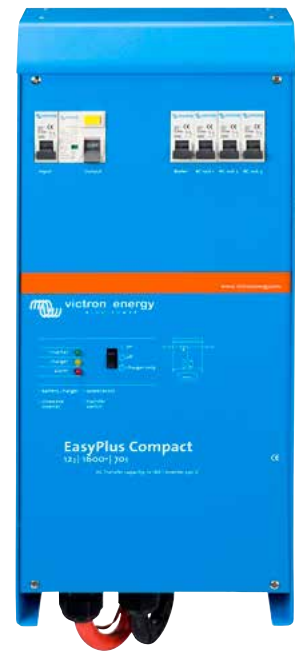
Technical Data 120V VE.BUS				
Description	12/5000/200-100/100 120V	24/5000/120-100/100 120V	48/3000/35-50/50 120V	48/5000/70-100/100 120V
Part Number	QUA125021100	QUA245023110	QUA483021100	QUA485021100
Charge Voltage 'absorption' (V DC)	14.4	28.8	57.6	57.6
Charge Current House Battery (4)	200A	120A	35A	70A
Output (1)	Output voltage: 120 VAC ± 2% Frequency: 60 Hz ± 0,1%			
Peak Power (W)	10000	10000	6000	10000
Maximum Efficiency (%)	94	94	94	95
Weight	34kg	30kg	19kg	30kg
Dimensions (L x W x H)	470 x 350 x 280 mm	444 x 328 x 240 mm	362 x 258 x 218 mm	444 x 328 x 240 mm

VICTRON EasyPlus Compact

12V 1600VA 70A Inverter Charger

The EasyPlus is a multifunctional energy system consisting of a powerful sine wave inverter, a sophisticated battery charger, a high speed AC transfer switch and AC distribution in a single light weight and compact enclosure. The system has been designed for those who want to enjoy the comfort and freedom of a complete energy system without spending time on the installation of separate components and difficult technical procedures.

The EasyPlus is connected to the batteries and to the shore power or generator. The maximum available generator or shore current is set using the dial on the control panel. The power consumers are divided into two groups. The first group consists of the 'regular', low or short term power users such as sockets or kitchen equipment. This group can be fed from both shore/generator and battery power via the inverter. The second group is the 'heavy user' circuit. This can be a water heater or the air-conditioning. In order to protect the batteries from excessive discharge, this group is shore/generator-only and cannot be supplied when the inverter is functioning. Unique PowerAssist® technology protects the shore or generator from being overloaded by adding extra inverter power when needed.



Technical Data	
Part Number	CEP121620000
70 A charger incl. 4 A trickle charge for start battery	
4 Stage adaptive charge technology	
Dimensions H x W x D mm	510 x 214 x 110
Weight	11.7kg

VICTRON ECOMulti

A simple wall mounted energy storage solution

The ECOMulti can be wall mounted, is easy to install, easy to program and easy to operate. With 2,3 kWh Li-ion storage capacity and a 3 kVA bidirectional inverter, the ECOMulti reduces dependence on power from the grid.

Extremely flexible

- Energy storage can be increased by adding battery modules.
- AC power can be increased by paralleling ECOMulti modules.
- Three ECOMulti modules can be configured for three phase operation.

More self-consumption, more independence

With 2,3 kWh Li-ion storage capacity and a 3 kVA bidirectional inverter, the ECOMulti reduces dependence on power from the grid.



Technical Data	
VICTRON ECOMULTI 24/3000/70-50 2,3 KWH LIFEPO	
Part Number	EMP243020200
Maximum AC current feed-through	50 A
AC voltage	230 V 50 Hz single phase
Peak power	6000 W
Maximum efficiency	94%
Power factor range (when connected to the grid)	0,7 inductive to 0,7 capacitive (programmable)
Battery Technology	Lithium Iron Phosphate
Nominal voltage	25,6 V
Nominal capacity at 25°C	90 Ah
Battery Management System	Cell balancing, and system shutdown in case of cell over voltage, cell under voltage and over temperature
Protection category	IP22

VICTRON MultiPlus II Inverter Charger

A MultiPlus, plus ESS (Energy Storage System) functionality, the MultiPlus-II combines the functions of the MultiPlus and the MultiGrid. It has all the features of the MultiPlus, plus an external current sensor option which extends the PowerControl and PowerAssist function to 32A. It also has all the features of the MultiGrid with built-in anti-islanding and an increasingly long list of country approvals.

Technical Data 48/3000/35	
Part Number	PMP482304000
PowerControl & PowerAssist	Yes
Transfer Switch	32A
Maximum AC Input Current	32A
DC Input Voltage Range	38 – 66V
Output	Output voltage: 230 VAC ± 2% Frequency: 50 Hz ± 0,1% (1)
Charger AC Input	Input voltage range: 187-265 VAC Input frequency: 45 – 65 Hz
Charge Voltage 'absorption'	57.6V
Maximum Battery Charge Current (4)	35A
Protection Category	IP22
Weight	18kg
Dimensions (L x W x H)	499 x 268 x 141 mm



VICTRON MultiGrid

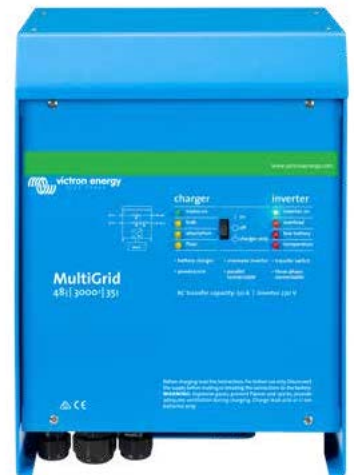
MultiGrid smooths out the risk of grid instability and energy costs by utilising energy storage and self-consumption.

ESS: Energy Storage Systems

The MultiGrid is the key component in a Victron ESS system, providing the flexibility to combine with MPPT solar chargers or Grid-tie PV inverters for example.

Up to 6 Multis can operate in parallel to achieve higher power output; 3-phase or split phase operation is also possible.

Technical Data	Part Number
24V	PMP243024000
48V	PMP483024000
PowerControl & PowerAssist	Yes
Transfer Switch	50A
Inverter Input Voltage Range	19 – 33V 38 – 66V
Output	Output voltage: 230 VAC ± 2% Frequency: 50 Hz ± 0,1% (1)
Peak Power	6000W
Maximum Efficiency	94 / 95%
Charger AC Input	Input voltage range: 187-265 VAC Input frequency: 45 – 65 Hz
Charge Voltage 'absorption'	28,8 / 57,6 V
Battery Temperature Sensor	Yes
Weight	18kg
Dimensions (L x W x H)	362 x 258 x 218 mm





SOLAR RANGE

BAINTUFF 180W Solar Blanket with VICTRON PWM

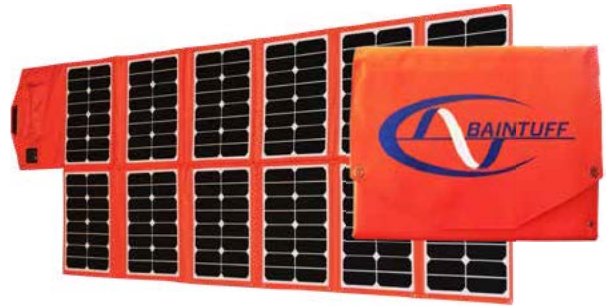
MASSIVE 180W POWER RATING: One of the most powerful solar power options on the market today. Output in full direct sun is up to 10A an hour.

ULTRA LIGHT WEIGHT: Weighing just 5kg, it's so easy to setup and pack up compared to traditional folding panels that can weigh three or four times as much. And when it's packed away, it's so small that you can store it under your seat or in a drawer.

EXTREME EFFICIENCY: We all know it's rarely sunny all day, but the BainTuff ETFE laminated Sunpower solar cells are able to harness maximum power even on cloudy or overcast days. The solar panel efficiency is up to 25%, while most of the similar products on the market are 18% or lower.

- Victron BlueSolar PWM Included
- 5m cable with red Anderson to red Anderson plug
- 1m cable with grey Anderson plug to alligator clamp with 30A fuse
- Monocrystalline ETFE laminated Sunpower solar cell technology
- Durable and weatherproof material

Technical Data	
Part Number	BTBLANKET180
Output	5.5V/2A & 18V/10A
Rated Power	18V 180W
Folded Size	398 x 300 x 78 mm
Unfolded Size	1830 x 775 mm
Weight	5.11kg
PWM Included	Victron BlueSolar PWM-Light
Cells	Sunpower ETFE laminated Monocrystalline



VICTRON BlueSolar PWM-Light 12/24V (included with 180w)

Features :

- Load output with low battery voltage disconnect function.
- Two digit seven segment display for quick and easy setting of the load output functionality, including timer setting.
- 3-stage battery charging (bulk, absorption, float), not programmable.
- Load output protected against overload and short circuit.
- Protected against reverse polarity connection of the solar array and/or battery.



BAINTECH 120W Solar Blanket

- Lightweight superior Sunpower ETFE laminated Monocrystalline cells
- Convenient portable power
- 5m cable with red Anderson to red Anderson included
- 1m cable with grey Anderson plug to alligator clamp with 30A fuse included
- 20A 12/24V PWM included

The 120W Baintech Solar blanket comes with a 20 amp 12/24volt PWM unit the Digital display shows Solar panel, battery and load readings in both current voltage and temperature of the unit.

Technical Data 120w	
Part Number	BTBLANKET120
Output	5.5V/2A & 18V/6.6A
Rated Power	18V 120W
Unfolded Size	1560 x 770 mm
Weight	3.6kg
Cells	Sunpower ETFE laminated monocrystalline



BAINTECH Foldable Solar Panels

Made from superior quality Poly-Crystalline Cells, the BainTuff foldable solar panels are designed to efficiently absorb sunlight providing a portable power source to power your adventures.

- Poly-Crystalline panels with corner protectors
- 5m cable and Alligator clips
- Strong aluminium frame with fold-out legs
- High quality hinges and latches, plus fold away handle
- Includes BAINTECH carry bag



160W

BTPPV160-F4

(4 x 40W panels)

Rated Max Power	160W
Optimum Power Voltage Vmp	17.5V
Optimum Operating Current Imp	9.14A
Open Circuit Voltage Voc	22.0V
Short Circuit Current Isc	10.16A
Maximum System Voltage	1000V
Weight Per Piece (Kg)	14.7KG

200W

BTPPV200-F4

(4 x 50W panels)

Rated Max Power	200W
Optimum Power Voltage Vmp	17.5V
Optimum Operating Current Imp	11.43A
Open Circuit Voltage Voc	22.0V
Short Circuit Current Isc	12.70A
Maximum System Voltage	1000V
Weight Per Piece (Kg)	17.0KG

120W

BTPPV120-F3

(3 x 40W panels)

Rated Max Power	120W
Optimum Power Voltage Vmp	17.5V
Optimum Operating Current Imp	6.86A
Open Circuit Voltage Voc	22.0V
Short Circuit Current Isc	7.62A
Maximum System Voltage	1000V
Weight Per Piece (Kg)	11.5KG

150W

BTPPV150-F3

(3 x 50W panels)

Rated Max Power	150W
Optimum Power Voltage Vmp	17.5V
Optimum Operating Current Imp	8.57A
Open Circuit Voltage Voc	22.0V
Short Circuit Current Isc	9.52A
Maximum System Voltage	1000V
Weight Per Piece (Kg)	13.2KG

80W

BTPPV80-F2

(2 x 40W panels)

Rated Max Power	80W
Optimum Power Voltage Vmp	17.5V
Optimum Operating Current Imp	4.58A
Open Circuit Voltage Voc	22.0V
Short Circuit Current Isc	5.08A
Maximum System Voltage	1000V
Weight Per Piece (Kg)	9.5KG

100W

BTPPV100-F2

(2 x 50W panels)

Rated Max Power	100W
Optimum Power Voltage Vmp	17.5V
Optimum Operating Current Imp	5.72A
Open Circuit Voltage Voc	22.0V
Short Circuit Current Isc	6.35A
Maximum System Voltage	1000V
Weight Per Piece (Kg)	10.5KG

300W BAINTECH SOLAR BLANKET

BTBLANKET300

The **Baintech 300W Folding Solar Blanket** will provide some serious power for your next 4WD, RV and Camping adventure. Folding down into a convenient carry case, it's a lightweight and compact solar solution. Made with premium **Monocrystalline SunPower Solar Cells**, the 300W Blanket will produce up to 18A in optimal conditions.

Designed with ease of use in mind, the simple plug and play Anderson plug connection is secure, safe and easy to connect.

- High efficiency Monocrystalline cells
- Compact
- Light weight
- Plug + Play Anderson connection
- All accessories and PWM included

20%
EFFICIENCY
RATING
.....
PRODUCES UP TO
18 AMPS
IN OPTIMAL CONDITIONS

SOLAR BLANKET SPECIFICATIONS

Colour	Black
Open size (mm)	3191 x 704
Folding size (mm)	670 x 670
Folded thickness (mm)	75mm
Weight (kg)	12.75kg
Solar cell	SunPower Monocrystalline
Efficiency rate	20%
Maximum Power (watts)	300w
Voltage at max power (vmp)	18.05 V
Current at max power (Imp) (A)	16.68 A
Open circuit voltage (Voc) (V)	21.24 V
Short circuit current (Isc) (A)	18.35 A
Operating Temperature (C°)	-20° to 50°
Maximum System Voltage (V)	100V
Maximum Series Fuse Rating (A)	15A
Warranty	12 Months

PERFECT FOR



ACCESSORIES INCLUDED:

- PWM Solar charge controller
- 5m Power Cable with Anderson connectors
- Alligator Clamps for charging your battery



Phone: 1300 224 683 email: sales@baintech.com.au
www.baintech.com.au



RF TRANSMITTER RECEIVER PAIR FOR 12V VEHICLES

TO ELIMINATE DIFFICULT WIRING THROUGH THE FIREWALL

The RF Transmitter and Receiver pair is used for wireless communication, designed to eliminate the need to run harnessing through hard to reach places such as a firewall. Working via radio frequency the transmitter and receiver units are used in conjunction with a switch panel, fuse block, and built-in automotive relays to wirelessly control and switch your 12V accessories such as light bars and spotlights.

Features:

- Compact + lightweight
- Easy to mount
- 4x switch channels
- Wireless - prevents compromising dust/water/noise seals of the firewall
- Versatile
- Waterproof (excludes additional connections)
- Each pair has unique ID so there's no risk of interference
- Can be doubled to provide 8x channels (by paralleling 2x pairs)

CODE: BTCONNECT

TECHNICAL SPECIFICATIONS	
TRANSMITTER	Working Voltage : 9-18V
	Idle Current : <50mA
	Transmit Current : 80mA
	Number of inputs : 4
	Transmit Distance (line of sight) : 10m
	Max Temperature : 85°c
	Min Temperature : -10°c
RECEIVER	Working Voltage : 9-18V
	Idle Current : <100mA
	Number of inputs : 4
	Max output current per channel : 20A
	Max output current : 30A
	Max Temperature : 85°c
	Min Temperature : -10°c
TEMPERATURE	(Mount in the coolest possible spot if mounting in the engine bay)
DIMENSIONS	Receiver 100mm L 67mm W 32mm H Transmitter 110mm L 55mm W 32MM H
SWITCH PANEL	Rating: 12V 20A DC
	Rating: 24V 10A DC
	Panel Rating: Max Amp: 45A
	Size of Switch Panel: 70mm x 123.7mm Size of Cut-out: 42mm x 105mm
FUSE BLOCK	6 Fuse Outlets with Red LED indicators
	Output terminal rating : 30A max per circuit
	Input terminal rating : 100A, 32V DC, M5 threaded studs
	Labels included



BAINTECH Semi Flexi Solar Panel

Flexi Solar panels utilise the highest efficiency Sunpower Monocrystalline ETFE laminated solar cell technology so that even in cloudy conditions the output is higher than lower quality solar panels in the market. The slimline aerodynamic design replaces heavy and bulky glass panels, the flexi panel range is perfect for caravans, boats and 4WD installs.

- Light weight only 1.9kg
- Waterproof
- Flexible
- ETFE laminated surface material

Rated Max Power (W)	100W
Voltage at Max Power	17.9 VDC
Open Circuit Voltage	21.6 VDC
Current at Max Power	6.12A
Short Circuit Current	6.63A
Operating Temperature	-40°C - 80°C
Cell Efficiency	20.5 - 23.5%
Dimensions (2.5mm thickness)	1060mm x 540mm



VICTRON Solar Panels

BlueSolar Monocrystalline Panels

- Sealed, waterproof, multi-functional junction box gives high level of safety.
- High performance bypass diodes minimizes the power drop.
- A sturdy, anodized aluminium frame allows modules to be easily roof-mounted with a variety of standard mounting systems.



Available in		Weight kg	Nominal Power (w)	Max Power (v)	Max Power Current
SPM030301200	30W-12V Mono 430x545x25mm series 3a*	2.5	30	18	1.67A
SPM030501200	50W-12V Mono 630x545x25mm series 3a*	4	50	18	2.78A
SPM030801200	80W-12V Mono 1195x545x35mm series 3a	8	80	18	4.45A
SPM031001200	100W-12V Mono 1195x545x35mm series 3a	8	100	18	5.56A
SPM031501200	150W-12V Mono 1480x673x35mm series 3a	12	150	18	8.33A
SPM031902400	190W-24V Mono 1580x808x35mm series 3a	15	190	36	5.44A
SPM033002400	300W-24V Mono 1956x992x45mm series 3a	24	300	36	8.06A



BlueSolar Polycrystalline Panels

- Low voltage-temperature coefficient enhances high-temperature operation
- Exceptional low-light performance and high sensitivity to light across the entire solar spectrum
- Sealed, waterproof, multi-functional junction box gives high level of safety
- A sturdy, anodized aluminium frame allows modules to be easily roof-mounted with a variety of standard mounting systems shade

Available in		Weight kg	Nominal Power (w)	Max Power (v)	Max Power Current
SPP030201200	20W-12V Poly 480x350x25mm series 3a*	2.2	20	18	1.11
SPP030301200	30W-12V Poly 410x670x25mm series 3a*	3.7	30	18	1.67
SPP030501200	50W-12V Poly 540x670x25mm series 3a*	4.3	50	18	2.78
SPP030801200	80W-12V Poly 840x670x35mm series 3a	6.8	80	18	4.44
SPP031001200	100W-12V Poly 1000x670x35mm series 3a	8.9	100	18	5.56
SPP031001201	100W-12V Poly 1000x670x35mm series 3b	8.9	100	18	5.56
SPP031401200	140W-12V Poly 1480x673x35mm series 3a	12	140	20	7.78
SPP032502001	250W-20V Poly 1640x992x40mm series 3b	17	250	30	8.33
SPP032902400	290W-24V Poly 1956x992x45mm series 3a	24	290	36	8.06
* without connection cable and MC4 connector					



VICTRON Solar Accessories

Solar Cable (4 mm ²) with pre-assembled male and female MC4 (PV-ST01) connectors		
SCA000100000	Length 1m	
SCA000300000	Length 3m	
SCA000500000	Length 5m	
Solar Cable (6 mm ²) with pre-assembled male and female MC4 (PV-ST01) connectors		
SCA000100100	Length 1m	
SCA000300100	Length 3m	
SCA000500100	Length 5m	
SCA001000100	Length 10m	
SCA002000100	Length 20m	
SCA500100000	Solar adapter cable MC4 male to MC3 female, length 15cm	
SCA500200000	Solar adapter cable MC4 female to MC3 male, length 15cm	
SCA520500000	Solar splitter pair MC4-Y, 1x M-2F / 1x F-2M	
SCA520300000	Solar connector pair MC4, 1x Male / 1x female	

VICTRON Solar Batteries

Available in		(C120) Ah	Dimensions
BAT802601280	VICTRON TUBULAR PLATE BATTERY OPZS SOLAR 910	910	145 x 206 x 711 mm
BAT802801280	VICTRON TUBULAR PLATE BATTERY OPZS SOLAR 1210	1210	210 x 191 x 711 mm
BAT802102280	VICTRON TUBULAR PLATE BATTERY OPZS SOLAR 1520	1520	210 x 233 x 711 mm
BAT802122280	VICTRON TUBULAR PLATE BATTERY OPZS SOLAR 1830	1830	210 x 275 x 711 mm
BAT802152280	VICTRON TUBULAR PLATE BATTERY OPZS SOLAR 2280	2280	210 x 275 x 861 mm
BAT802202280	VICTRON TUBULAR PLATE BATTERY OPZS SOLAR 3040	3040	212 x 397 x 837 mm
BAT802252280	VICTRON TUBULAR PLATE BATTERY OPZS SOLAR 3800	3800	212 x 487 x 837 mm
BAT802302280	VICTRON TUBULAR PLATE BATTERY OPZS SOLAR 4560	4560	212 x 576 x 837 mm

Long life flooded tubular plate batteries:

Design life: >20 years at 20°C, >10 years at 30°C, >5 years at 40°C. Cycling expectancy of up to 1500 cycles at 80% depth of discharge. Manufactured according to DIN 40736, EN 60896 and IEC 896-1.

Low maintenance:

Under normal operating conditions and 20°C, distilled water has to be added every 2 – 3 years.

Dry-charged or ready for use electrolyte filled:

The batteries are available filled with electrolyte or dry-charged (for long term stocking, container transport or air transport). Dry charged batteries have to be filled with diluted sulfuric acid (density 1,24kg/l @ 20°C). The electrolyte may be stronger for cold- or weaker for hot climates.





TOW-MATE

REMOTE TRAILER BRAKE CONTROLLER



The Baintech Tow-Mate operates with a pre-set braking force utilising microprocessor technology. This new generation of brake controllers has been designed for both single and dual axle trailers using negative earth (ground) systems only.

Rugged and compact, it is easily installed with the simple connection of four wires and comes with a remote control. The remote control is simple to install and makes adjusting and monitoring the brakes even easier - it can be located up to 1m from the brake controller. The Tow-Mate incorporates an override function for independent braking of the trailer from the vehicle brakes – which helps to prevent potentially dangerous swaying and snaking.

Code: *BTTOW*

SPECIFICATIONS

Voltage Range	9 - 15VDC
Suitable for 12V Trailer Brakes	Yes
No Current Load	30 mA
Maximum Load	2 Axle / 12A Avg
Dimensions	30mm x 57mm x 90mm
Weight	200g

- **Compact**
- **Remote control**
- **Safe**
- **Easy to install**
- **Approved for use with AL-KO ESC**



Small, easy mount remote head
(20mm x 31mm)



1 x Single hole install



Single multi function knob



Unlimited mounting angles





SOLAR CHARGE CONTROLLERS

VICTRON BlueSolar MPPT with screw - or TR/MC4 PV Connection

MPPT 150/45 - MPPT 150/100

- Ultra-fast, Maximum Power Point Tracking (MPPT)
- Advanced Maximum Power Point Detection in case of partial shading conditions
- Load output on the small models
- Battery Life: intelligent battery management by load shedding
- Automatic battery voltage recognition
- Flexible charge algorithm
- Over-temperature protection and power de-rating when temperature is high.



Technical Data	MPPT 150/45	MPPT 150/60	MPPT 150/70	MPPT 150/85 CAN-bus
Part Number	Tr: SCC010045200 MC4: SCC010045300	Tr: SCC010060200 MC4: SCC010060300	Tr: SCC010070200 MC4: SCC010070300	SCC010085110
Battery Voltage	12 / 24 / 48V Auto Select (software tool needed to select 36V)			
Rated Charge Current	45A	60A	70A	85A
Self-Consumption	< 10 mA			
Protection	Battery reverse polarity (fuse, not user accessible) PV reverse polarity / Output short circuit / Over temperature			
Operating Temp. Range	-30 to +60°C (full rated output up to 40°C)			
Humidity (non-condensing)	95%, non-condensing			
Protection Class	IP43			
Weight	3kg	3kg	3kg	4.5kg
Dimensions (L x W x H)	Tr models: 185 x 250 x 95 MC4 models: 215 x 250 x 95			Tr models: 216 x 295 x 103 MC4 models: 246 x 295 x 103

VICTRON SmartSolar MPPT

Bluetooth® **Smart built-in**: dongle not needed. The wireless solution to set-up, monitor and update the controller using iOS and Android smartphones, tablets or other devices.

Ultra-fast Maximum Power Point Tracking (MPPT) Especially in case of a clouded sky, when light intensity is changing continuously, an ultra-fast MPPT controller will improve energy harvest by up to 30%, compared to PWM charge controllers and by up to 10% compared to slower MPPT controllers.

- Ultra-fast Maximum Power Point Tracking (MPPT)
- Advanced Maximum Power Point Detection in case of partial shading conditions
- Automatic battery voltage recognition
- Flexible charge algorithm
- Over-temperature protection and power de-rating when temperature is high



Technical Data	MPPT 75/10	MPPT 75/15	MPPT 100/15	MPPT 100/20	MPPT 100/30	MPPT 100/50
Part Number	SCC075010060R	SCC075015060R	SCC110015060R	SCC110020060R	SCC110030210	SCC110050210
Battery Voltage	12/24V Auto Select					
Rated Charge Current	10A	15A	15A	20A	30A	50A
Self-Consumption	12V: 25 mA 24V: 15 mA		12V: 30 mA 24V: 20 mA			
Protection	Battery reverse polarity (fuse) / Output short circuit / Over temperature					
OperatingTemp.Range	-30 to +60°C (full rated output up to 40°C)					
Humidity	95%, non-condensing					
Protection Class	IP43 (electronic components), IP22 (connection area)					
Weight	0.5kg	0.5kg	0.6kg	0.65kg	1.3kg	1.3kg
Dimensions (L x W x H)	100 x 113 x 40 mm	100 x 113 x 40 mm	100 x 113 x 50 mm	100 x 113 x 60 mm	130 x 186 x 70 mm	130 x 186 x 70 mm

VICTRON SmartSolar MPPT with screw - or - TR/MC4 PV Connection

- Ultra-fast, Maximum Power Point Tracking (MPPT)
- Advanced Maximum Power Point Detection in case of partial shading conditions
- Load output on the small models
- Battery Life: intelligent battery management by load shedding
- Automatic battery voltage recognition
- Flexible charge algorithm
- Over-temperature protection and power de-rating when temperature is high.



Technical Data	MPPT 150/45	MPPT 150/60	MPPT 150/70	MPPT 150/85	MPPT 150/100
Part Number	TR: SCC115045210 MC4: SCC115045310	TR: SCC115060210 MC4: SCC115060310	TR: SCC115070210 MC4: SCC115070310	TR: SCC115085211 MC4: SCC115085311	TR: SCC115110211 MC4: SCC115110311
Battery Voltage	12 / 24 / 48V Auto Select (software tool needed to select 36V)				
Rated Charge Current	45A	60A	70A	85A	100A
Self-Consumption	Less than 35mA @ 12V / 20mA @ 48V				
Protection	Battery reverse polarity (fuse, not user accessible) PV reverse polarity / Output short circuit / Over temperature				
Operating Temp. Range	-30 to +60°C (full rated output up to 40°C)				
Humidity	95%, non-condensing				
Protection Class	IP43 (electronic components), IP22 (connection area)				
Weight	3kg	3kg	3kg	4.5kg	4.5kg
Dimensions (L x W x H)	Tr models: 185 x 250 x 95 mm MC4 models: 215 x 250 x 95 mm			Tr models: 216 x 295 x 103 mm MC4 models: 246 x 295 x 103 mm	

Technical Data	MPPT 250/60	MPPT 250/70	MPPT 250/85	MPPT 250/100
Part Number	TR: SCC125060210 MC4: SCC125060310	TR: SCC125070210 MC4: SCC125070310	TR: SCC125085210 MC4: SCC125085310	TR: SCC125110210 MC4: SCC125110310
Battery Voltage	12 / 24 / 48V Auto Select (software tool needed to select 36V)			
Rated Charge Current	60A	70A	85A	100A
Self-Consumption	Less than 35mA @ 12V / 20mA @ 48V			
Protection	Battery reverse polarity (fuse, not user accessible) PV reverse polarity / Output short circuit / Over temperature			
Operating Temp. Range	-30 to +60°C (full rated output up to 40°C)			
Humidity (non-condensing)	95%, non-condensing			
Protection Class	IP43			
Weight	3kg	3kg	3kg	4.5kg
Dimensions (L x W x H)	Tr models: 185 x 250 x 95 mm MC4 models: 215 x 250 x 95 mm			Tr models: 216 x 295 x 103 mm MC4 models: 246 x 295 x 103 mm

Solar Controller Accessories	Part Number
Inverting Remote On-Off Cable	ASS030550100
VE.Direct TX Digital Output Cable (PWM light dimming cable)	ASS030550500
SmartSolar Pluggable Display	SCC900600010
MPPT Control (VE.Direct cable not included)	SCC900500000
VE.Direct Non Inverting Remote On-Off Cable	ASS030550310
WireBox-L TR (for TR models, h=200mm) Covers the MPPT connections	SCC950300200
WireBox-L MC4 (for MC4 models, h=200mm) Covers the MPPT connections	SCC950300300
WireBox-XL TR (for TR models, h=216mm) Covers the MPPT connections	SCC950400200
WireBox-XL MC4 (for MC4 models, h=216mm) Covers the MPPT connections	SCC950400300



SmartSolar Charge Controller with pluggable display



VICTRON BlueSolar Solar Regulator - PWM Light

12/24-5A - 12/24-30A

- Load output with low battery voltage disconnect function.
- Lighting control function, one timer only.
- Two digit seven segment display for quick and easy setting of the load output functionality, including timer setting.
- 3-stage battery charging (bulk, absorption, float), not programmable.
- Load output protected against overload and short circuit.
- Protected against reverse polarity connection of the solar array and/or battery.



Technical Data	12/24-5A	12/24-10A	12/24-20A	12/24-30A	48-10A	48-20A	48-30A
Part Number	SCC010005000	SCC010010000	SCC010020020	SCC010030020	SCC040010020	SCC040020020	SCC040030020
Battery Voltage	12/24V with automatic system voltage detection				48V		
Rated Charge Current	5A	10A	20A	30A	10A	20A	30A
Automatic Load Disconnect	Yes						
Maximum Solar Voltage	28V / 55V (1)				100V		
Self-Consumption	< 10 mA						
Protection	Battery reverse polarity (fuse), Output short circuit, Over temperature						
Operating Temp. Range	-20 to +50°C (full load)						
Humidity (non-condensing)	Max 95%						
Protection Class	IP20						
Weight	0.15kg	0.15kg	0.15kg	0.2kg	0.17kg		
Dimensions (L x W x H)	70 x 133 x 33.5 mm				95x140x33.5 mm		

VICTRON BlueSolar Solar PWM-Pro

12/24-5A - 12/24-30A

- Lighting control function, fully programmable.
- 3-stage battery charging (bulk, absorption, float), fully programmable.
- Integrated battery monitor function (Remote Panel needed to display state of charge).
- Load output with low voltage disconnect and manual control (default setting).
- Optional external temperature sensor.
- Load output protected against overload and short circuit.
- Protected against reverse polarity connection of the solar array and/or battery.



Technical Data	12/24-5A	12/24-10A	12/24-20A	12/24-30A
Part Number	SCC010005010	SCC010010010	SCC010020110	SCC010030010
Battery Voltage	12/24V with automatic system voltage detection			
Rated Charge Current	5A	10A	20A	30A
Automatic Load Disconnect	Yes			
Maximum Solar Voltage	28V / 55V (1)			
Self-Consumption	< 10 mA			
Protection	Battery reverse polarity (fuse), Output short circuit, Over temperature			
Operating Temp. Range	-20 to +50°C			
Humidity (non-condensing)	Max 98%			
Protection Class	IP30			
Weight	0.13kg	0.13kg	0.3kg	0.5kg
Dimensions (L x W x H)	138 x 70 x 37 mm	138 x 70 x 37 mm	160 x 82 x 48 mm	200 x 100 x 57 mm

Solar Controller Accessories	Part Number
Remote Panel for BlueSolar PWM-Pro	SCC900300000
Temperature Sensor for BlueSolar PWM-Pro	SCC940100100
BlueSolar PWM-Pro to USB Interface Cable	SCC940100200

VICTRON BlueSolar PWM DUO 12/24-20A

Charges two separate batteries. For example the starter battery and the service battery of a boat or mobile home

- Programmable charge current ratio (standard setting: equal current to both batteries)
- Charge voltage settings for three battery types (Gel, AGM and Flooded)
- Internal temperature sensor and optional remote temperature sensor
- Protected against over current + protected against short circuit
- Protected against reverse polarity connection of the solar panels and/or battery

Technical Data	PWM DUO
Part Number	SCC010020000
Battery Voltage	12/24 V with automatic system voltage detection
Rated Charge Current	20A
Remote Panel for BlueSolar DUO Part Number SCC900200000 available	



VICTRON BlueSolar MPPT

MPPT 75/15 - MPPT 100/50

- Ultra-fast, Maximum Power Point Tracking (MPPT)
- Advanced Maximum Power Point Detection in case of partial shading conditions
- Load output on the small models
- Battery Life: intelligent battery management by load shedding
- Automatic battery voltage recognition
- Flexible charge algorithm
- Over-temperature protection and power de-rating when temperature is high.



Technical Data	MPPT 75/10	MPPT 75/15	MPPT 100/15	MPPT 100/30	MPPT 100/50
Part Number	SCC010010050R	SCC010015050R	SCC010015200R	SCC020030200	SCC020050200
Battery Voltage	12/24V Auto Select				
Rated Charge Current	10A	15A	15A	30A	50A
Self-Consumption	10 mA				
Protection	Battery reverse polarity (fuse) Output short circuit / Over temperature			Battery reverse polarity (fuse, not user accessible) PV reverse polarity Output short circuit Over temperature	
Operating Temp. Range	-30 to +60°C (full rated output up to 40°C)				
Humidity (non-condensing)	95%, non-condensing				
Weight	0.5kg			1.3kg	
Dimensions (L x W x H)	100 x 113 x 40 mm			130 x 186 x 70 mm	

VICTRON BlueSolar MPPT

150/35A

- Ultra-fast, Maximum Power Point Tracking (MPPT)
- Advanced Maximum Power Point Detection in case of partial shading conditions
- Load output on the small models
- Battery Life: intelligent battery management by load shedding
- Automatic battery voltage recognition
- Flexible charge algorithm
- Over-temperature protection and power de-rating when temperature is high



Technical Data	MPPT 150/35
Part Number	SCC020035000
Battery Voltage	12 / 24 / 48V Auto Select (software tool needed to select 36V)
Rated Charge Current	35A
Self-Consumption	0,0o1 mA (1 µA)
Protection	Battery reverse polarity (fuse, not user accessible) ,PV reverse polarity ,Output short circuit, Over-temperature
Operating Temp. range	-30 to +60°C (full rated output up to 40°C)
Humidity (non-condensing)	95%, non-condensing
Weight	1.25kg
Dimensions (L x W x H)	130 x 186 x 70 mm

VICTRON EasySolar Inverter Charger

All-in-one solar power solution The EasySolar combines a MPPT solar charge controller, an inverter/charger and AC distribution in one enclosure. The product is easy to install, with a minimum of wiring.

The all in one solar power solution. An integrated, smart, total power solution. All that is needed to reap the full benefit of solar energy is EasySolar, some solar panels and batteries. EasySolar takes power solutions one stage further; by combining an Ultra-fast BlueSolar charge controller (MPPT), an inverter/charger and AC distribution all in one enclosure.

- Three strings of solar panels can be connected
- No additional wiring is needed
- Protection from overload



Technical Data		
Part Number	CEP121621000	CEP241621010
Number	EasySolar 12/1600/70-16 MPPT 100/50	EasySolar 24/1600/40-16 MPPT 100/50
Transfer switch	16A	
Input voltage range	9.5 - 17v	19 - 33v
Peak power	3000W	
Maximum efficiency	92%	94%
Zero load power	8W	10W
AC Input	Input voltage range: 187-265 VAC Input frequency: 45-65 Hz Power factor: 1	
Dimensions (L x W x H)	745 x 214 x 110 mm	
Weight	15kg	

VICTRON EasySolar 24V and 48V Inverter Charger

PMP243027010/24/3000/70-50 MPPT - PMP485027010/48/5000/70-100 MPPT

The EasySolar combines two MPPT solar charge controller and an inverter/charger in one enclosure. The product is easy to install, with minimum wiring.

The All-In-One Solar Power Solution

The EasySolar combines a MPPT solar charge controller, an inverter/charger and AC distribution in one enclosure. The product is easy to install, with a minimum of wiring.

Color Control Panel

Two outstanding functions:

- Prioritizes battery charging by the MPPT charge controller
- Connects to the internet, enabling remote monitoring (VRM website) and remote control.

AC Distribution

The AC distribution consists of a RCD (30 mA / 63 A) and four AC outputs protected by two 10A and two 16A circuit breakers. An additional 16 A output is controlled by the AC input: it will switch on only when AC is available.

PowerAssist

Unique PowerAssist technology protects the utility or generator supply from being overloaded by adding extra inverter power when needed.



Technical Data	EasySolar 24/3000/70 MPPT150/70	EasySolar 48/3000/35 MPPT150/70 Color Control	EasySolar 48/5000/70 MPPT150/100 Color Control
Part Number	PMP243027010	PMP483027010	PMP485027010
Transfer Switch	50A		100A
Input Voltage Range	19 – 33V	38 – 66V	38 – 66V
Peak Power	6000W		10000W
Maximum Efficiency	94%	95%	95%
Zero Load Power	20W	25W	35W
AC Input	Input voltage range: 187-265 VAC / Input frequency: 45-65 Hz / Power factor: 1		
Dimensions (L x W x H)	810 x 258 x 218 mm	810 x 258 x 218 mm	877 x 328 x 241 mm
Weight	28kg	28kg	48kg



JUMP STARTERS

BAINTECH 18000mAh Jump Starter + Power Bank

BT18

Emergency power anywhere, anytime with the BAINTECH BT18 Jump Starter. A fully charged BT18 unit will provide a full phone charge up to 8 times, and provide enough charge to jump start a small car up to 40 times. The Baintech BT18 Jump Starter can be charged from either 12V or 240V systems. Simply use the AC at home charger or ciga socket charger provided.

All accessories included in black carry case:

- AC Charger
- Ciga socket charger
- 3 way device charger
- Laptop connectors
- Jump starter leads
- 12 month warranty



12V 800 Amps
suitable for engine sizes
up to 4.0L Diesel



Technical Data	
Battery Capacity	18,000mAh (66.6Wh)
Output	5V/1A 12V 12V/10A 19V/3.5A
Input	15V/1A
Dual Input Charging System	A/C Adaptor/Car adaptor
Jump Start Current	400 - 800A
Operating Temperature	- 20°C to 60°C
Dimensions	225 x 89 x 30 mm
Weight	720g

- Reverse-Charge Protection: no reverse charging back to unit after the vehicle is started.
- Reverse Polarity Protection: no damage if the clamps are connected to the wrong terminals.
- Short-Circuit Protection: prevents short-circuit occurring while two clamps are connected.
- Over-Discharge Protection: prevents over-discharge of the battery in the jump starter.
- Over-Charge Protection: prevents over-charge of the battery in the jump starter.
- Over-Temperature Protection: automatic stop function when the temperature gets too high.

BAINTECH Ultra Capacitor Jump Starter

BTCAP

The Baintech Ultra Capacitor utilises the remaining voltage of your car battery to transfer charge into the Ultra Capacitor to generate power to then jump start the vehicle. Simply connect the Ultra Capacitor to your car battery, once connected the capacitor display screen will display your car battery voltage. The screen will then read 'Jump Start Ready' if your flat battery is still above 5V. If unable to use voltage from your car battery (below 5V), the Ultra Capacitor has a small back up battery reserve to assist in jump starting your vehicle.

- 3-in-1 Unit: the Baintech Ultra Capacitor is a jump starter, power bank and torch
- Light Weight: under 2kg
- Powerful: 1000A Peak Current
- Quick Charge: using the voltage of your battery, the capacitor doesn't rely on the internal battery for jump starting (unless your car battery is 'dead' below 5V)
- 12 month warranty

The unit comes with battery clamps and has a built in LCD screen that displays your car battery voltage and capacitor information.

Technical Data	
Battery Capacity	6000mAh - Peak current 1000A
Output	12V Jump Start
Input	5V/2A ; 12V/10A
Dual Input Charging System	A/C Adaptor/Car adaptor
Jump Start Current	350 - 700A
Operating Temperature	- 20°C to 60°C
Dimensions	295 x 219 x 81 mm
Weight	1.83kg



RIDOF INDUSTRIAL STRENGTH HAND WIPES

Tradies best friend. Whenever, wherever, no water needed.

Rid Of Wipes easily handle heavy duty cleaning like grease, oil, paint, dirt, etc. and cleans tough dirt on your hands using natural ingredients. Pre-moistened, hence, there's no need for soap, cleaners or water.

- Waterless hand cleaning
- Amazing cleaning power
- All natural ingredients
- No toxic solvents
- Water saving eco friendly
- Deep cleansing & protective

Part Number	Description
E240	RIDOF WIPES 70G 240/BOX
E336	RIDOF WIPES 50G 336/BOX
E601	RIDOF WIPES SACHETS 70G (Box of 60 sachets)
E601SACHET	RIDOF WIPES INDIVIDUAL SACHET 70G
E35-071	RIDOF WIPES DISPENSER PACK 40 WIPES
E35-072	RIDOF WIPES SATCHES BOX OF 12



E35-071



E35-072



E601SACHET



RIDOF SODA WIPES

Let RidOf Soda Wipes replace traditional hazardous cleaning items for your office, deli, restaurant, bakery, and home. Clean your dining area, food preparation area and food storage space with this revolutionary product!

Quick and effective - use on:

- Fridges
- Microwaves
- Food surfaces
- Food cabinets

Part Number	Description
E336SODA	RIDOF SODA WIPES 50G 336/BOX



CYCLO + RID-OF

SOCKETS PLUGS & ACCESSORIES





Anderson Accessory Kit
CODE: BTAA-001

Full accessory kit includes:
 1 x Anderson 'T' small pull handle
 1 x Large Anderson plug handle
 1 x Dust cover on wire rope
 1 x Anderson sleeve



Anderson Plug to Double Anderson Plug
12 volt 50 AMP - Fridge, Solar, Camper Trailer

CODE: BT DAS-001

- Single Anderson Plug to double Anderson plug outlet
- Run two appliances from the one Anderson plug power lead
- High 50 amp rating
- Ideal for fridges, solar, lights, Camper Trailers, Caravans, Boats 4WD's
- 12 months Warranty



Anderson "T" Pull Handle (Small)
CODE: BTAH-001

Designed to make the removal of plugs easier

Anderson Plug to Double Cigarette Socket
12 Volt, Caravan, 4WD - CODE: BTDCS-001



Designed to adapt a high powered 50A Anderson connector to provide two high current 15A cigarette lighter sockets. Perfect for powering portable fridges, cooking utilities, and more.

Each socket uses a 290mm 16-Gauge cable to reduce voltage drop and ensure safety.

Features:

- High current
- 16-Gauge copper cable
- Current rating: 2 x 15A max



Anderson Connector Handle (Large)
CODE: BTAH-002

Designed to make the removal of plugs easier

Anderson Plug to Cigarette Socket
12 Volt, Caravan, 4WD - CODE: BTSCS-001



Designed to adapt a high powered 50A Anderson connector to provide high current 15A cigarette lighter socket. Perfect for powering portable fridges, cooking utilities, and more.

Sockets use a 290mm 16-Gauge cable to reduce voltage drop and ensure safety.

Features:

- High current
- 16-Gauge copper cable
- Current rating: 1 x 15A max



Anderson Dust Cap
CODE: BTADC-001

Anderson plug dust cover on wire rope, designed to keep moisture and dust out of terminals, while the loop prevents the cap from falling off and getting lost.

OEM RANGE

Save time and money by ordering sockets raw, unpackaged - ready for installation.

BAINTECH SOCKETS (WHITE)

SOCKET	PRODUCT CODE	Min Order QTY
CIGA SOCKET	BTCIGAWHITE-OEM	Min order qty 20
USB SOCKET	BTUSB2.4-OEM	Min order qty 20
2.1A DUAL USB SOCKET	BTDUALUSBWHITE-OEM	Min order qty 20
SOCKET HOUSING	PRODUCT CODE	Min Order QTY
SINGLE HOUSING	BTSINGLEWHITE-OEM	Min order qty 20
DOUBLE HOUSING	BTDOUBLEWHITE-OEM	Min order qty 20



BAINTECH SOCKETS (BLACK)

SOCKET	PRODUCT CODE	Min Order QTY
CIGA SOCKET	BTCIGA-OEM	Min order qty 20
ENGEL SOCKET	BTENGEL-OEM	Min order qty 20
MERIT SOCKET	BTMERIT-OEM	Min order qty 20
USB SOCKET	BTUSB-OEM	Min order qty 20
2.1ADUALUSBSOCKET	BTDUALUSB-OEM	Min order qty 20



SOCKET HOUSING

SOCKET HOUSING	PRODUCT CODE	Min Order QTY
SINGLE HOUSING	BTSINGLE-OEM	Min order qty 20
DOUBLE HOUSING	BTDOUBLEBLACK-OEM	Min order qty 20
TRIPLE HOUSING	BTRIPLE-OEM	Min order qty 20



ANDERSON PLUGS

ANDERSON PLUGS	PRODUCT CODE	Min Order QTY
50A ANDERSON	BTA50-OEM	Min order qty 20

BAINTECH Anderson Plugs

BTP50AR - BTASC001R

Part Number	Description
BTA50R	Baintech Grey Anderson Plug 50A
BTA502R	Baintech Grey Anderson Plug 50A x 2 PACK
BTP175AR	Baintech Grey Anderson Plug 175A
BTPB50AR	Baintech Anderson Plug 50A Black Rubber Boot Cap
BTA50-BLUE	Baintech Blue Anderson Plug 50A
BTA50-RED	Baintech Red Anderson Plug 50A
BTAPSC001	Baintech Anderson Plug Sleeve and End Cap
BTA503-PACK	Baintech Tricolour Anderson Plugs Pack
BTA502-BLUE	Baintech Blue Anderson Plug 50A x 2 PACK
BTA502-RED	Baintech Red Anderson Plug 50A x 2 PACK

Tricolour Anderson plugs
BTA503-PACK



BAINTECH Ciga Sockets



Part Number	BTCIGA-001
Socket	Ciga
Mounting	Flush Mount
Colour	Black
Rated	0-30V 10A Max
Dimensions (L x H)	55 x 36 mm



Part Number	BTCIGA-002
Socket	Ciga
Mounting	Surface Mount
Colour	Black
Rated	0-30V 10A Max
Dimensions (L x W x H)	80 x 55 x 40 mm



Part Number	BTCIGA-003
Socket	Double Ciga
Mounting	Surface Mount
Colour	Black
Rated	0-30V 10A Max
Dimensions (L x W x H)	100 x 80 x 41 mm



Part Number	BTCIGAWHITE
Socket	Ciga
Mounting	Flush Mount
Colour	Black
Rated	0-30V 10A Max
Dimensions (L x H)	55 x 36 mm



Part Number	BTCIGA-005
Socket	Triple Ciga
Mounting	Surface Mount
Colour	Black
Rated	0-30V 10A Max
Dimensions (L x W x H)	133 x 80 x 41 mm



Part Number	BTCIGAEXT005
Socket	Ciga
Dimensions (L x H)	55 x 36 mm

BAINTECH Engel Sockets



Part Number	BTENGEL-001
Socket	Engel
Mounting	Flush Mount
Colour	Black
Rated	0-30V 10A Max
Dimensions (L x H)	55 x 36 mm



Part Number	BTENGEL-002
Socket	Engel
Mounting	Surface Mount
Colour	Black
Rated	0-30V 10A Max
Dimensions (L x W x H)	80 x 55 x 40 mm



Part Number	BTENGEL-003
Socket	Double Engel
Mounting	Surface Mount
Colour	Black
Rated	0-30V 10A Max
Dimensions (L x W x H)	100 x 80 x 41 mm



Part Number	BTCIGA-004
Socket	Ciga & Engel
Mounting	Surface Mount
Colour	Black
Rated	0-30V 10A Max
Dimensions (L x W x H)	100 x 80 x 41 mm



Part Number	BTM-08
Socket	Engel and 2 x Ciga
Mounting	Surface Mount
Colour	Black
Rated	0-30V 10A Max
Dimensions (L x W x H)	133 x 80 x 41 mm



Part Number	BTENGELEXT005
Socket	Engel
Dimensions (L x H)	55 x 36 mm

BAINTECH Merit Sockets



Part Number	BTM-02
Socket	Merit
Mounting	Surface Mount
Colour	Black
Rated	0-30V 10A Max
Dimensions (L x W x H)	70 x 45 x 35 mm



Part Number	BTM-03
Socket	Double Merit
Mounting	Surface Mount
Colour	Black
Rated	0-30V 10A Max
Dimensions (L x W x H)	80 x 70 x 35 mm



Part Number	BTM-04
Socket	Ciga & Merit
Mounting	Surface Mount
Colour	White
Rated	0-30V 10A Max
Dimensions (L x W x H)	100 x 80 x 41 mm



Part Number	BTM-05
Socket	Merit & Engel
Mounting	Surface Mount
Colour	Black
Rated	0-30V 10A Max
Dimensions (L x W x H)	100 x 80 x 41 mm



Part Number	BTMERITEXT005
Socket	Merit
Dimensions (L x H)	55 x 36 mm



Part Number	BTM-09
Socket	Merit and 2 x Ciga
Mounting	Surface Mount
Colour	Black
Rated	0-30V 10A Max
Dimensions (L x W x H)	133 x 80 x 41 mm

BAINTECH USB Plug & Sockets



Part Number	BTM-06
Socket	Ciga & Dual USB
Mounting	Surface Mount
Colour	Black
Rated	10-20V 2A Max
Dimensions (L x W x H)	100 x 80 x 41 mm



Part Number	BTDUALUSB4.2-W
Socket	Universal USB
Mounting	Flush Mount
Colour	White
Rated	5V 4.2A
Dimensions (L x H)	55 x 36 mm



Part Number	BTDUALUSB4.2
Socket	Universal USB
Mounting	Flush Mount
Colour	Black
Rated	5V 4.2A
Dimensions (L x H)	55 x 36 mm



Part Number	BTUSB2.4R
Plug	USB



Part Number	BTCUSB5.2
Plug	USB



Part Number	BTCUSB4.2
Plug	USB

BAINTUFF Sockets

The Baintuff range is designed to continue to perform in the toughest Australian outdoors. The range is durable, robust and safe.



Part Number	BTMENGEL-001
Plug	Engel
Dimensions	55mm long



Part Number	BTMCIGA-001
Plug	Ciga
Dimensions	55mm long



Part Number	BTMDUALUSB
Plug	Dual USB
Dimensions	55mm long

BAINTECH Plugs



Part Number	BTCP001R
Plug	Ciga
Dimensions (L)	80 mm



Part Number	BTEP001R
Plug	Engel
Dimensions (L)	80 mm



Part Number	BTMP001R
Plug	Merit
Dimensions (L)	80 mm



Part Number	BTDATAABLE
Plug	USB, Android, iOS



Ergonomic Trailer DC to DC Power Connector
DELT-BTPC



Part Number	BTPB50A
Rubber boot cover	Anderson plug

BAINTECH Clipsal Sockets



Part Number	BTP-01
Socket	Clipsal
Mounting	Surface Mount
Colour	Black
Rated	0-30V 10A Max
Dimensions (L x W x H)	80 x 55 x 40 mm



Part Number	BTP-02
Socket	Double Clipsal
Mounting	Surface Mount
Colour	Black
Rated	0-30V 10A Max
Dimensions (L x W x H)	100 x 80 x 41 mm

Anderson Plug
Available in single and bulk quantities

BAINTECH Anderson Cable Accessories



Simple plug and play cable to add to your solar setup. The Grey Anderson cable lets you connect to solar via the safe and secure Anderson connectors. Available in a range of sizes.

- Extends length from your vehicle to your solar
- No hassle plug and play
- High quality cable with Grey Anderson connection

BAINTECH 1.5m Anderson Cable

BTA2A1.5

Cable Size	AWG 10 (2.6mm)
Current Limit	50 Amp
Conductor size	AWG10
Cable length	1.5m

BAINTECH 5m Anderson Cable

BTA2A5

Cable Size	AWG 10 (2.6mm)
Current Limit	40 Amp
Conductor size	AWG10
Cable length	5m

BAINTECH 10m Anderson Cable

BTA2A10

Cable Size	AWG 10 (2.6mm)
Current Limit	30 Amp
Conductor size	AWG10
Cable length	10m

BAINTECH Anderson Parallel Cable 0.5m

BTA2AP0.5

Cable Size	AWG 10 (2.6mm)
Current Limit	40 Amp
Conductor size	AWG10
Cable length	0.5m

The Baintech parallel grey Anderson cable allows you to connect multiple solar panels together in parallel. By adding this to your solar set up you can increase your total panel wattage.



METERS & MONITORS



BAINTECH 12V DC Volt Meter

BTVOLTMETER

- 12v DC Volt Meter Socket
- DC 12V output

LED DC voltmeter capable of monitoring the voltage of your vehicle's battery or electrical system. The voltage of a battery will let you know the usable power you have left and therefore it will give you an indication of run time remaining for your appliances



Technical Data	
Input	DC 12V--24V
Output	12V Volt:5-15V 24V Volt: 5-30V

BAINTECH 150A Watt Meter + Power Analyser

BTWATT01

The Baintech watt meter allows you to closely monitor how much charge your solar panels are producing. Simple to connect: simply plug your regulated solar source to the 'source' side of the watt meter, and your battery/load to the 'Load' Anderson connector. Once connected and power is flowing through, the watt meter will give you real time readings of:

- Current (Amps/A)
- Voltage (Volts/V)
- Power (Watts/W)

Technical Data	
Operating voltage	4.8-60v
Measures	0-150A
Weight	82g
Dimensions (L x W x H)	85 x 42 x 25 mm



BAINTECH Bluetooth Battery Monitor

BTBATMON1

Easy to install, simply connect the black connector to the negative battery terminal and the red connector to the positive terminal. After installing the BM2 app, switch on your bluetooth and open the app. Your Baintech Bluetooth monitor will automatically connect with your phone and display real time information on your connected battery.

12V BATTERIES

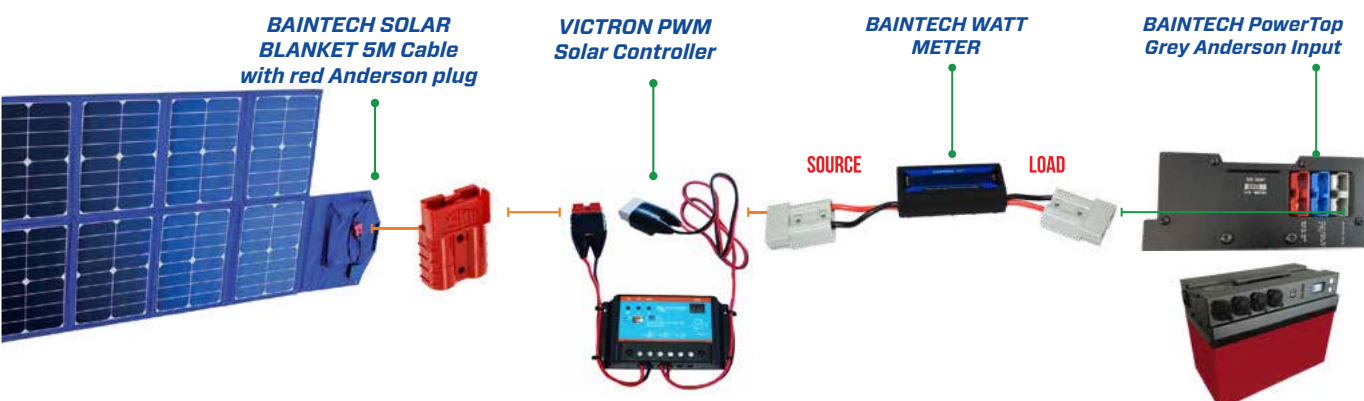


- Wireless battery monitoring via mobile device - Receive notification of your battery condition
- Data stored for up to 31 days if out of sync
- Review historical data
- Compatible with all 12-volt vehicle batteries

Technical Data	
Average Current	1mA
Input Voltage	6-20V
Operating Temperature	-40°c - 90°c
Dimensions (L x W x H)	55 x 35 x 16mm



CREATE A POWER SYSTEM



BAINTECH 12V DC Volt Meter

BTDCM001 - BTDCM007

This 12V DC Volt Meter gives you a reading of the current voltage on your battery. If you want an inexpensive, simple-to-use meter, this is the one to choose.

- Back light on/off control by changing polarity connection
- Easy DIY installation
- 2 year warranty



Technical Data						
Part Number	BTDCM001	BTDCM002	BTDCM003	BTDCM005	BTDCM006	BTDCM007
Mount Type	Flush single	Surface single	Surface Double	Surface Double	Surface Double	Surface Triple
Contents	Volt Meter	Volt Meter	Double VoltMeter	Volt Meter & Ciga Socket	Volt Meter & Engel Socker	Volt Meter & 2 Ciga Sockets
Volt Measuring Range	10-20V DC	10-20V DC	10-20V DC	10-20V DC	10-20V DC	10-20V DC
Dimensions (L x W x H)	36.5 mm	80 x 55 x 40 mm	100 x 80 x 41 mm	100x80x41 mm	100 x 80 x 41 mm	133 x 80 x 41 mm

BAINTECH Volt Amp Meters

BTBM0010R - BTBM0012R

These meters are very versatile. They cost a little bit more than a simple volt meter and they give you a flexible range of combinations to choose from – Volt/ Amp, Volt/Volt and Amp/Amp – which means there's sure to be one which suits your needs.

- Large Backlit LCD Screen which can be wired on or off
- Suitable for 12V and 24V systems
- 2 year warranty



Technical Data			
Part Number	BTBM0010R	BTBM0011R	BTBM0012R
Meter Type	Volt/Amp	Volt/Volt	Amp/Amp
Volt Measuring Range	9-30V DC	9-30V DC	--
Amp Measuring Range	0-50A	--	0-50A
Resolution	0.1V, 0.1A	0.1V	0.1A
Max Power Consumption	55mA	15mA	70mA
Dimensions (D)	45 mm	45 mm	45 mm

Baintech Volt Meter Surface/Flush Mount

BTVM-10-30

This simple compact LED volt meter has a built in programmable low voltage warning: the backlight will flash when the batteries discharge to lower than a certain voltage.

- Compact surface/flush mount design
- Built-in backlight for at-a-glance reading
- 2 year warranty



Technical Data	
Volt Measuring Range	9-30V DC
Low Voltage Warning (light flash)	below 11V
Dimensions (L x W x H)	65 x 20 x 15mm



victron energy
B L U E P O W E R

VICTRON BMV700 Battery Monitor

This takes all the guesswork out of your battery capacity and charge by calculating volts, amps, power, state of charge and time remaining. With a big, bright, easy-to-read LED display, the BMV700 is the easiest monitor of its type to DIY install.

- High resolution with 500A shunt
- Auto start Gen-set capability
- 2 year warranty

Technical Data	BAM020700000R	BAM010700100 BMV700 70 - 350 VDC
Volt Measuring Range	6.5 - 95 VDC	60 – 385VDC
Battery Capacity	20 - 9999Ah	1 - 9999Ah
Number of Batteries able to measure	1 battery	Note: suitable for systems with grounded minus only (battery monitor is not isolated from shunt).
Resolution	+/- 0.01	
Max power Consumption	<4mA	
Dimensions (D)	63 mm	



VICTRON BMV702 Battery Monitor

This takes all the guesswork out of your battery capacity and charge by calculating volts, amps, state of charge and time remaining. The BMV702 has a second voltage input for measuring a second battery. Big, bright, easy-to-read LED display

- High resolution with 500A shunt
- PC cable and global remote available
- 2 year warranty

Technical Data	
Black Part No. BAM010702200R	
Grey Part No. BAM010702000R	
Volt Measuring Range	6.5 - 95 VDC
Battery Capacity	20 - 9999Ah
Number of Batteries Able to Measure	2 batteries
Resolution	+/- 0.01
Max power Consumption	<4mA
Dimensions (D)	63 mm



VICTRON Temperature Sensor for BMV702 + BMV712

Part Number ASS000100000

VICTRON BMV712 Battery Monitor

With Bluetooth® built-in, download the VictronConnect app via a smartphone or other Bluetooth® enabled device to customize settings, monitor all important data on single screen and view historical data.

- High resolution with 500A shunt
- Battery voltage, current, power, ampere-hours consumed and state of charge
- PC cable and global remote available
- 2 year warranty

Technical Data BAM030712000	
Volt Measuring Range	6.5 - 70VDC
Battery Capacity	20 - 9999Ah
Measures Voltage of Second Battery, or Temperature, or Midpoint	Yes
Resolution	+/- 0.01
Current Draw, Back Light Off	< 1mA
Dimensions (D)	63 mm



VICTRON Shunts to suit Blue Power Panel and BMV

Part Number	Description
SHU500050100	Shunt 500A/50Mv
SHU102050200	Shunt 1000A/50Mv
SHU202050200	Shunt 2000A/50Mv



VICTRON Color Control GX

BPP000300100R

The Color Control GX (CCGX) provides intuitive control and monitoring for all products connected to it. The list of Victron products that can be connected is endless: Inverters, Multis, Quattros, MPPT 150/70, BMV700 series, Skylla-i, Lynx Ion and even more.

Technical Data			
Power Supply Voltage Range	9 – 70V DC		
Curent Draw	12V DC	24V DC	48V DC
Switched Off	0mA	0mA	0mA
Display Off	140mA	80mA	40mA
Display at Minimum Intensity	160mA	90mA	45mA
Display at Maximum Intensity	245mA	125mA	65mA

Communication Ports	
VE.Direct	2 separate VE.Direct ports – isolated
VE.Can	2 paralleled RJ45 sockets – isolated
VE.Bus	2 paralleled RJ45 sockets – isolated
USB	2 USB Host ports – not isolated
Ethernet	10/100/1000MB RJ45 socket– isolated except shield



VICTRON VE.Direct Bluetooth® Smart Dongle

ASS030536011

With the VE.Direct to Bluetooth® Smart Dongle you can get live status info, see historical values as well as configure Victron products. The dongle works together with the VictronConnect app, available for both Android and iOS devices. The dongle can be connected to all Victron products that have a built-in VE.Direct port.



VICTRON SmartSolar Control Display

SCC900600010

The SmartSolar Control Display is a pluggable LCD display for the SmartSolar Charge Controllers. Simply remove the rubber seal that protects the plug on the front of the controller and plug-in the display.

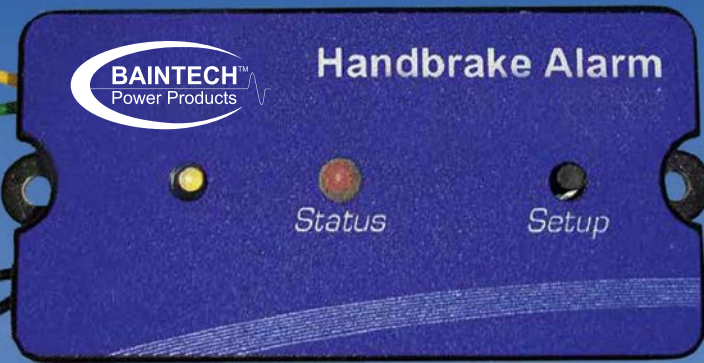




HAND BRAKE ALARM 12V/24V

The Baintech Hand Brake Alarm has been designed to work with both 12V/24V vehicles, acting on either a positive or negative handbrake and door switches. If the door is opened without the Handbrake applied a latched alarm (both audible and visual) will go off and cannot be reset until the Hand Brake has been engaged.

This function aids in reducing incidents of drivers exiting their vehicle without the handbrake engaged. There is an optional Auxiliary Alarm feed that can be used to drive a relay to activate the vehicles horn or similar external alarm device.



- *Car, truck, 4x4 & mining vehicles*
- *Soon to be mandatory on all logistic sites*
- *Connects door & hand brake*
- *Safe*
- *Easy to wire*
- *Both 12v/24v*
- *Audible and visual alarm*

CODE: BTHBALARM



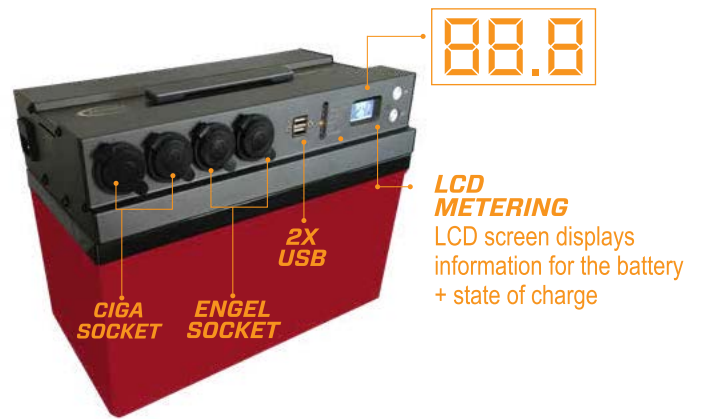


BAINTECH POWERTOP

BAINTECH PowerTop V3 12V 135Ah

BTPTOP135V3

Technical Data	
In-built Battery Charger	6.6A 12V AC Charger
Vehicle Input Voltage for VCR	Above 13.2V
Volt Meter Alarm Level	11V
Socket Protection	15A Self-resettable breaker
Grey Anderson Plug (output) Protection	50A Self-resettable breaker
USB Socket Output	5V 2.3A
Maximum Load Across All Sockets	200W
Dimensions (L x W x H)	330 x 175 x 275 mm
Weight	35kg



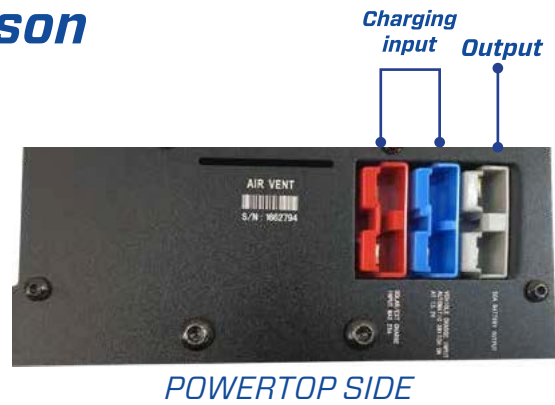
BAINTECH 150W Pocket Inverter

BT150INV

As campers, caravanners and 4WDers progressively take more electronic gear on their trip, there is a growing demand for easy to access AC power. The compact 150W Pocket Inverter is ideal for charging simple electronics, it even has a built in USB port to make it convenient for low power USB devices.



BAINTECH Tri-colour Anderson Plugs



The Baintech Anderson Plug is designed to lock securely together and provide a solid connection between two cables. Rated for 50A. The Baintech PowerTop has three colour coded Anderson plugs on the side of the unit. These plugs can be used to connect to external charging inputs or loads. Each colour is keyed differently to ensure correct connection of loads and charging inputs.

RED ANDERSON: Solar/External

BLUE ANDERSON: Vehicle charging input connection

GREY ANDERSON: Load connection to and from battery

BAINTECH PowerTop Battery Tray (V1-V3) BTPTOPTRAY

Suits Baintech PowerTop (V1-V3)

Auxiliary battery tray to allow mechanical restraint of Baintech PowerTop.

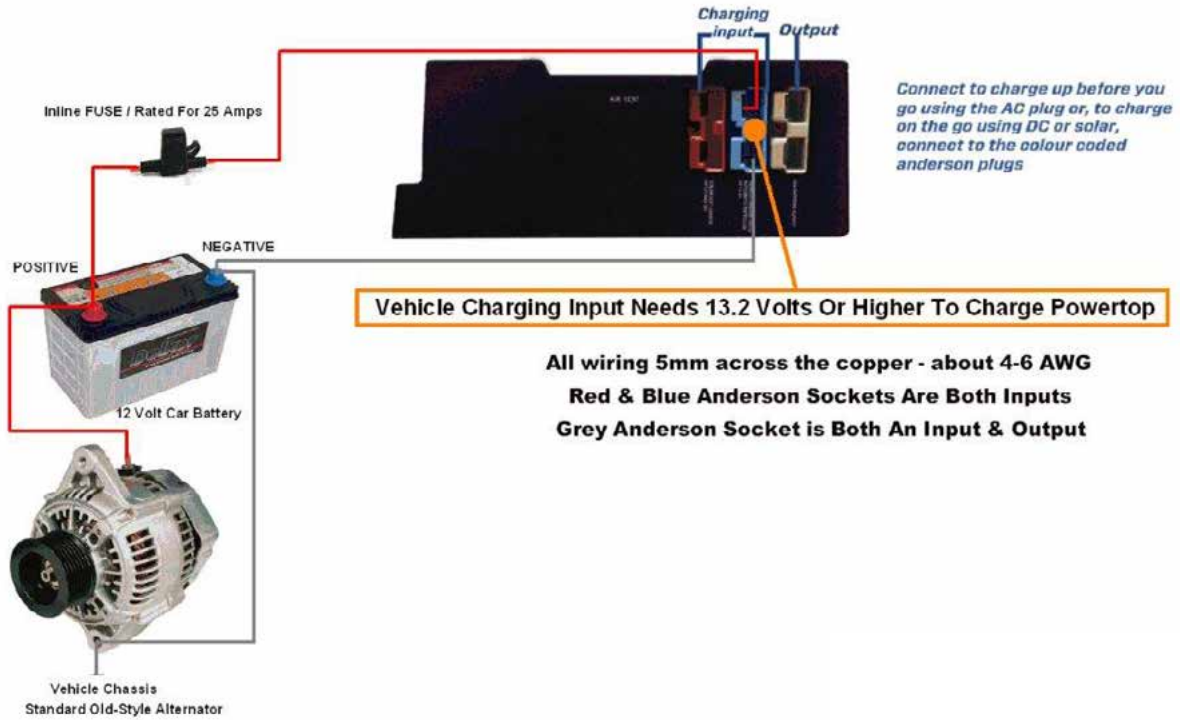
Kit Includes:

- 1 x electroplated tray with 6 counter sunk fixing points
- 2 x J bolt extension brackets with 2 bolts and nuts to suit
- 2 x J bolts
- 1 x top mount with one end trimmed to clear sockets

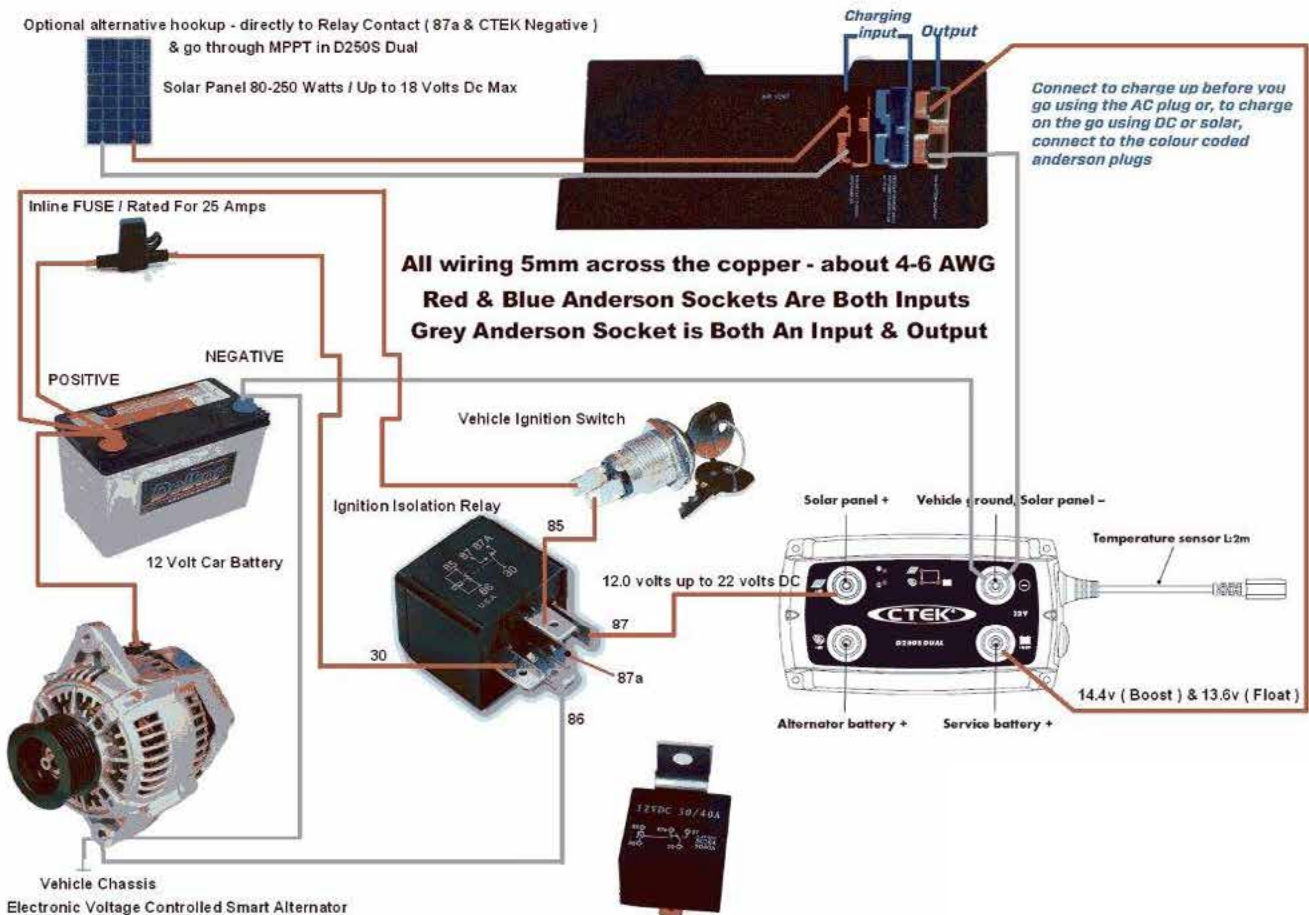
(Install time approx: 1.5hr)



Standard Alternator BAINTECH PowerTop



Smart Alternator BAINTECH PowerTop





BATTERIES + ACCESSORIES

BAINTECH Power Battery Boxes

BTBB5628

Baintech's specially designed power battery box is an all-in-one power source which includes a Battery Condition Indicator, external terminals, an accessory socket, and a 10Amp circuit breaker. 2 year warranty.

Technical Data	
Part Number	BTBB5628
Circuit breaker	10A
Accessory Socket	Ciga
Dimensions (L x W x H)	325mm x 200mm x 198



BAINTECH Battery Box Spacer

BTBSP001

Designed to fit Baintech's Large and Power Battery Boxes, the Baintech Battery Box Spacer raises the height of your battery box by up to 30 mm.



Battery Trays

Assorted battery trays available - refer to our current price list for models.

Baintech's battery trays are tough, durable and long-lasting too. They are Australian made – designed to survive off-road adventuring anywhere in our country's wide-ranging terrain.

- Zinc plated for corrosion resistance
- Easy DIY installation
- 2 year warranty



Available in	Part no.
AGM DEEP CYCLE BATTERY	
6V/240Ah AGM Deep Cycle Batt.	BAT406225084
12V/8Ah AGM Deep Cycle Batt.	BAT212070084
12V/14Ah AGM Deep Cycle Batt.	BAT212120084
12V/22Ah AGM Deep Cycle Batt.	BAT212200084
12V/38Ah AGM Deep Cycle Batt.	BAT412350084
12V/60Ah AGM Deep Cycle Batt.	BAT412550084
12V/66Ah AGM Deep Cycle Batt.	BAT412600084
12V/90Ah AGM Deep Cycle Batt.	BAT412800084
12V/110Ah AGM Deep Cycle Batt.	BAT412101084
12V/130Ah AGM Deep Cycle Batt.	BAT412121084
12V/165Ah AGM Deep Cycle Batt.	BAT412151084
12V/220Ah AGM Deep Cycle Batt.	BAT412201084
AGM DEEP CYCLE W/ THREADED INSERT TERMINALS	
12V/90Ah AGM Deep Cycle Batt. (M6)	BAT412800085
12V/110Ah AGM Deep Cycle Batt. (M8)	BAT412101085
12V/130Ah AGM Deep Cycle Batt. (M8)	BAT412121085
12V/165Ah AGM Deep Cycle Batt. (M8)	BAT412151085
12V/220Ah AGM Deep Cycle Batt. (M8)	BAT412201085
SUPER CYCLE AGM BATTERY	
12V/12,5Ah AGM Super Cycle Batt. (Faston-tab 6.3x0.8mm)	BAT412012080
12V/25Ah AGM Super Cycle Batt. (M5)	BAT412025081
12V/38Ah AGM Super Cycle Batt. (M5)	BAT412038081
12V/60Ah AGM Super Cycle Batt. (M5)	BAT412060081
12V/100Ah AGM Super Cycle Batt. (M6)	BAT412110081
12V/125Ah AGM Super Cycle Batt. (M8)	BAT412112081
12V/170Ah AGM Super Cycle Batt. (M8)	BAT412117081
12V/230Ah AGM Super Cycle Batt. (M8)	BAT412123081
GEL DEEP CYCLE BATTERY	
12V/60Ah Gel Deep Cycle Batt.	BAT412550104
12V/66Ah Gel Deep Cycle Batt.	BAT412600104
12V/90Ah Gel Deep Cycle Batt.	BAT412800104
12V/110Ah Gel Deep Cycle Batt.	BAT412101104
12V/130Ah Gel Deep Cycle Batt.	BAT412121104
12V/165Ah Gel Deep Cycle Batt.	BAT412151104
12V/220Ah Gel Deep Cycle Batt.	BAT412201104
LITHIUM BATTERIES	
LiFePO4 Battery 12,8V/60Ah Smart	BAT512060410
LiFePO4 Battery 12,8V/90Ah Smart	BAT512090410
LiFePO4 Battery 12,8V/100Ah Smart	BAT512110610
LiFePO4 Battery 12,8V/150Ah Smart	BAT512115610
LiFePO4 Battery 12,8V/160Ah Smart	BAT512116410
LiFePO4 Battery 12,8V/200Ah Smart	BAT512120410
LiFePO4 Battery 12,8V/300Ah Smart	BAT512130410
LiFePO4 battery 25,6V/200Ah - Smart	BAT524120410

VICTRON Battery Range

2 year warranty

AGM DEEP CYCLE BATTERY

The AGM range has very low internal resistance making them particularly suitable for high current discharge applications such as for inverters, thrusters and winches as well as engine starting.



SUPER CYCLE AGM BATTERY

A truly innovative battery, the AGM Super Cycle batteries are the result of recent battery electrochemistry developments. The paste of the positive plates is less sensitive to softening, even in case of repeated 100% discharge of the battery, and new additives to the electrolyte reduce sulfation in case of deep discharge.



GEL

The GEL model range offers best deep cycle durability and overall longer life. The use of high purity materials and lead calcium grids ensure that both AGM and GEL products have particularly low self-discharge so that they will not go flat during long periods without charge. Both ranges are supplied with M8 drilled, flat copper terminals ensuring best possible connection contact and eliminating the need for battery terminals.



LITHIUM

Lithium-iron-phosphate (LiFePO4 or LFP) is the safest of the mainstream li-ion battery types. The nominal voltage of a LFP cell is 3,2V (lead-acid: 2V/cell). A 12,8V LFP battery therefore consists of 4 cells connected in series; and a 25,6V battery consists of 8 cells connected in series.



BAINTECH SWITCH PANELS

Great for



Powering different devices when you're away in a 4WD can be a challenge. Switch panels offer a solution, allowing easy access to power fridges, lights and all your devices. The Baintech blue LED 6 Way Switch Panel features a ciga socket, double 2.1A USB and volt/amp meter. Pre-wired for easy installation, the Baintech range of switch panels are customisable, with rocker switch labels to suit your set up.

With the built-in volt meter, you can see exactly what state your batteries are in when you're using them, rather than being out of sight and mind and running the risk of going flat as your fridge and lights run into the night. Stop having to pick and choose what stays and what goes. Set yourself up with a power panel featuring a range of different sockets today, so everything gets to come along on your next 4WD adventure.

- 12/24V suitable for 4WD, Caravan, Marine applications
- Durable aluminium panel
- 15A fuse holders
- Individually fused
- Waterproof 1P68 rating
- Blue LED customisable rocker switches
- Indication switch labels included
- 12 month warranty



BAINTECH DC Distribution Panel

BTCP0004R - BTCP006R

Smart, affordable and pre-wired for virtually foolproof DIY flush mount installation, Baintech Distribution Panels let you charge and power multiple 12V devices at the same time from your dash or from the rear drawer in your 4WD. Each panel comes with a volt meter so you can easily keep an eye on your system voltage, and you can choose from 3 handy configurations to power up a variety of devices at the same time

- Ready to DIY wire to your battery
- 4 x rocker switches to turn your appliances on and off
- 2 year warranty



Technical Data			
Part Number	BTCP004R	BTCP005R	BTCP006R
Sockets	1 x Volt Meter 1 x USB Socket 2 x Ciga Sockets	1 x Volt Meter 1 x USB Socket 1 x Ciga Socket 1 x Engel Socket	1 x Volt Meter 1 x Merit Socket 2 x Ciga Sockets
Rated	0-20V DC	0-20V DC	0-20V DC
Dimensions (L x W)	160 x 100 mm	160 x 100 mm	160 x 100mm

BAINTECH Blue LED Switch Panels

BTSWITCH3 | BTSWITCH4 | BTSWITCH6

Powering different devices when you're away in a 4WD can be a challenge. Switch panels offer a solution allowing easy access to power fridges, lights and all your devices. Pre-wired for easy installation, the Baintech range of switch panels are customisable, with rocker switch labels to suit your set up.

Suitable for 4WD, Caravan, Marine applications

- Aluminium panel
- Customisable rocker switches
- Includes indication labels
- 12 month warranty



BTSWITCH6

Technical Data			
Part Number	BTSWITCH3	BTSWITCH4	BTSWITCH6
Sockets	3 x Rocker Switches 1 x Dual USB Socket (2 x 2.1A) 1 x Ciga Sockets	4 x Rocker Switches 1 x Volt Meter 1 x Ciga Socket	1X Volt Meter 1 x Merit Socket 2 x Ciga Sockets
Voltage	12v-24V DC	12v-24V DC	12v-24V DC
Dimensions (L x W)	100 x 110 mm	131 x 120 mm	160 x 100 mm



BTSWITCH3



BTSWITCH4

BAINTECH Universal Power Panel

BTUPB4.0 - BTUPB6.0

Surface mount and foolproof to DIY install, and the Baintech Universal Power Panel not only lets you power up multiple devices, it also lets you manage your power usage (with an LCD backlit volt meter); protects your electronics (with fused circuit protection); safeguards your battery (with auto low voltage disconnect); and fully discharges your battery if you need to (with auto disconnect bypass). The Baintech Universal Power Panel is as rough and tough as any of your adventures, cased in hardy anodized aluminium to ensure it won't rust.

- Ready to DIY wire to your battery
- Comes with 1m pre-terminated cable
- Surface mount aluminium housing
- Convertible to left or right horizontal mount
- On/off switch
- 2 year warranty

Technical Data			
Part Number	BTUPB4.0	BTUPB5.0	BTUPB6.0
Sockets	1 x Ciga Socket 2 x Merit Socket	1 x Ciga Socket 1 x Engel Socket 1 x USB Socket	1 x Ciga Socket 1 x Merit Socket 1 x USB Socket
Rated	0-20V DC	0-20V DC	0-20V DC
L:V:D:	11.8V DC	11.8V DC	11.8V DC
Dimensions (L x W x H)	205 x 60 x 60 mm	205 x 60 x 60 mm	205 x 60 x 60 mm



BAINTECH Vertical Control Panel

BTCPVERTICAL

With a back-lit volt meter to display your battery voltage, a range of 12V sockets to power your appliances and a 20A push button circuit breaker to reset the panel and keep your appliances safe.

- 3 mm thick anodized aluminium panel
- 2 year warranty

Technical Data	
Part Number	BTCPVERTICAL
Sockets	1 x Ciga Socket 1 x Engel Socket 1 x Merit Socket
Colour	Black
Rated	0-20V DC
Dimensions (L x W x H)	230 x 65 x 60 mm



BAINTECH Switch Panel

BTCP003R

This compact, easy to use panel has 4 rocker switches which let you easily switch your appliances on and off as needed.

- Easy DIY install
- 20A circuit protection
- 2 year warranty

Technical Data	
Part Number	BTCP003R
Rated	0-20V DC
Dimensions (L x W)	120 x 56 mm



BATTERY PROTECTION



BAINTECH Low Volt Cutout 40A **BTLVC001R**

The Baintech Low Voltage Cutout 40A monitors battery voltage when the motor is off and will automatically disconnect if the voltage on the start battery drops too low.

- Protect your batteries from deep discharge
- Easy DIY installation
- 2 year warranty



Technical Data	
Part Number	BTLVC001R
Operating Voltages	10.5- 18V DC
Max Load	40A DC
Cut in Voltage	12.3V
Cut Out Voltage	11.8V
Dimensions (L x W x H)	45 x 45 x 80 mm

BAINTECH Low Volt Cutout 10A **BTLVC004R**

The Baintech Low Voltage Cutouts 10A monitor battery voltage when the motor is off and will automatically disconnect if the voltage on the start battery drops too low.

- Auto detect 12/24V
- Easy DIY installation
- 2 year warranty



Technical Data	
Part Number	BTLVC004R
Operating Voltages	8-20V DC / 20-35V DC
Max Load (constant)	7A DC
Cut in Voltage	10 pre-programmed options
Cut Out Voltage	10 pre-programmed options
Dimensions (L x W x H)	65 x 28 x 8mm

VICTRON Battery Protect 12/24V

The Battery Protect disconnects the battery from non-essential loads before it is completely discharged (which would damage the battery) or before it has insufficient power left to crank the engine.

12/24V auto-ranging, the Battery Protect automatically detects system voltage. The Battery Protect can be set to engage / disengage at several different voltages. The seven segment display will indicate which setting has been chosen.



Technical Data			
Part Number	BPR000065400	BPR000100400	BPR000220400
	12/24V 65A	2/24V-100A	12/24V-220A
Operating Voltage Range	6 - 35V		
Max Load On Alarm Output	50mA (short circuit proof)		
Dimensions (L x W x H)	40 x 48 x 106 mm	59 x 42 x 115 mm	62 x 123 x 120 mm

VICTRON Battery Protect 48V-100A BPR048100400

Programming Made Easy:

The BatteryProtect can be set to engage / disengage at several different voltages. The seven segment display will indicate which setting has been chosen.

A Special Setting for Li-ion Batteries:

In this mode the Battery Protect can be controlled by the VE.Bus BMS.

Ultra-Low Current Consumption:

This is important in case of Li-ion batteries, especially after low voltage shutdown.

Over Voltage Protection:

To prevent damage to sensitive loads due to over voltage, the load is disconnected whenever the DC voltage exceeds 64V.

Ignition Proof:

No relays but MOSFET switches, and therefore no sparks.



Technical Data 48V-100A	
Part Number	BPR048100400
Operating Voltage Range	24-64V
Max Load On Alarm Output	50mA (short circuit proof)
Dimensions (L x W x H)	62 x 123 x 120 mm

BAINTECH Voltage Control Relay 100A **BTVCRI00**

The Voltage Control Relay (VCR) separates the two batteries until the start battery reaches the 'turn on' voltage, then it connects to allow charging of the auxiliary battery. Easy to DIY install, the Baintech Voltage Control Relay will keep your start battery from going flat.

- Auto-detect 12 or 24V
- Bio-directional charging and an emergency parallel function
- 2 year warranty

Technical Data		
Operating Voltages	12V	24V
Relay Connect Voltage	13.2V	26.4V
Relay Disconnect Voltage	12.8V	25.6V
Rapid Discharge Disconnect	<11.8V (after 4 secs)	<23.6V (after 4 secs)
Temperature Range	-30°C - 75°C	
Dimensions	45 x 45 x 80 mm	



BAINTECH Voltage Control Relay 160A **BTVCRI60**

The Baintech 160A Voltage Control Relay (VCR) is powerful (160A continuous operation), tough (IP68 waterproof, fully self contained and dust proof) and it's versatile (can start from auxiliary battery). The Baintech 160A VCR is designed to help power up the toughest, bumpiest, wettest, most power-consuming adventures.

- 12 month warranty
- Works with all alternator types, No diode efficiency loss
- Prevent loads on auxiliary battery from draining the main battery

Technical Data	
Temperature Range	-40°C - 85°C
Insulation	IP68
Dimensions	L X W X H mm 72 x 72 x 36



BAINTECH Dual Battery Kits **BTVCARDIY & BTDIY160WP**

A Baintech Dual Battery Kit is a foolproof, affordable and durable tool to ensure your dual battery system will start when you need it. It's smart, it's powerful enough to meet any of your hardcore needs, and it's easy to DIY install.

- Comes with 160A or 100A VCR
- Kit comes with all the essential items
- 2 year warranty

Kit Contents	
BTVCARDIY100	BTVCARDIY160
100A Voltage Control Relay	160A Voltage Control Relay
2 x Battery Connectors	2 x Battery Connectors
6 x Lugs	6 x Lugs
Heat Shrink	Heat Shrink
6m Red 16mm ² Cable	6m Red 16mm ² Cable
0.5m Black 16mm ² Cable	2m Black 16mm ² Cable
0.2m Pre-fused Earth Cable	0.2m Pre-fused Earth Cable



BAINTECH Dual Battery Cable Only Kit

BTDIY

Cable only kit designed to use with the Baintech Voltage Control Relay. Complete with the essential items you need for a dual battery system. It also works great with the CTEK D250S Dual, and is suitable for installations where the unit is placed near the battery bank.



Kit Contents	
BTVCRDIY160	
160A Voltage Control Relay	
2 x Battery Connectors	
6 x Lugs	
Heat Shrink	
6m Red 16mm² Cable	
2m Black 16mm² Cable	

VICTRON Cyrix-i Battery Combiner

The Cyrix-i battery combiner is a microprocessor controlled, heavy duty relay that automatically connects batteries in parallel when one of them has reached a preset voltage, and disconnects when the voltage decreases below float level.

- Virtually no voltage loss
- Parallel connection for start assist
- 5 year warranty



Technical Data	CYR010120011R	CYR010400000	CYR010230412
Description	CYRIX-i 12/24-120A	CYRIX-i 12/24-400A	CYRIX-LI-CT 12/24v-230a intelligent li-ion battery combiner
Input Voltage	8-36V DC	8-36V DC	Continuous current and breaking capacity at 12V or 24V : 120A
Relay Connect Voltage	From 13V to 13.8V and 26 to 27.6V with intelligent trend detection		Protection category: IP54
Relay Disconnect Voltage	From 11V to 12.8V and 22 to 25.7V with intelligent trend detection		
Rapid Discharge Disconnect	From 13V to 13.8V and 26 to 27.6V with intelligent trend detection		65 x 100 x 50 mm
Dimensions (L x W x H)	78 x 102 x 110 mm		

VICTRON Battery Balancer

The Battery Balancer equalizes the state of charge of two series connected 12V batteries, or of several parallel strings of series connected batteries. When the charge voltage of a 24V battery system increases to more than 27V, the Battery Balancer will turn on and compare the voltage over the two series connected batteries. The Battery Balancer will draw a current of up to 1A from the battery (or parallel connected batteries) with the highest voltage. The resulting charge current differential will ensure that all batteries will converge to the same state of charge.

If needed, several balancers can be paralleled. A 48V battery bank can be balanced with three Battery Balancers.



Part Number BBA000100100	
Input Voltage Range	Up to 18V per battery, 36V total
Turn On Level	27,3V +/- 1%
Turn Off Level	26,6V +/- 1%
Operating Temperature	-30 to +50°C
Protection Category	IP22
Dimensions (L x W x H)	100 x 113 x 47 mm

VICTRON Argo Diode Battery Isolator

The Argo battery isolators feature a low voltage drop thanks to the use of Schottky diodes. All models are fitted with a compensation diode that can be used to slightly increase the output voltage of the alternator. This compensates for the voltage drop over the diodes in the isolator.

- Ensures you have enough starting power
- Alternator energize input
- 5 year warranty



Technical Data					
Part Number	ARG080202000R	ARG080201000R	ARG100301000R	ARG140301020R	ARG180301020
Description	80-2SC	80-2AC	100-3AC	140-3AC	180-3AC
Maximum Charge Current	80A	80A	100A	140A	180A
Maximum Alternator Current	80A	80A	100A	140A	180A
Number of Batteries	2	2	3	3	3
Alternator Energize Input	No	Yes	Yes	Yes	Yes
Connection	M6 Studs	M6 Studs	M6 Studs	M8 Studs	M8 Studs
Compensation Diode and Energize Connection	6.3mm Faston				
Dimensions (L x W x H)	60 x 120 x 75 mm	60 x 120 x 90 mm	60 x 120 x 115 mm	60 x 120 x 150 mm	60 x 120 x 200 mm

VICTRON Argo FET Battery Isolator

Similar to diode battery isolators, FET isolators allow simultaneous charging of two or more batteries from one alternator (or a single output battery charger), without connecting the batteries together. Discharging the accessory battery for example will not result in also discharging the starter battery.

- Virtually no voltage loss
- Special current limited energize input
- 5 year warranty



Technical Data				
Part Number	ARG100201020R	ARG100301020R	ARG200201020R	ARG200301020R
Description	100-2 Two batteries 100A	100-3 Three batteries 100A	200-2 Two batteries 200A	200-3 Three batteries 200A
Maximum Charge Current	100A	100A	200A	200A
Maximum Alternator Current	100A	100A	200A	200A
Number of Batteries	2 batteries	3 batteries	2 batteries	3 batteries
Connection	M8 Bolts	M8 Bolts	M8 Bolts	M8 Bolts
Dimensions (L x W x H)	65 x 120 x 200 mm	65 x 120 x 200 mm	65 x 120 x 200 mm	65 x 120 x 200 mm

VICTRON ARGO Diode Battery Combiner

With a Diode Battery Combiner, two or more DC power sources can be used in parallel to supply the mission critical load. Failure of one source will not interrupt power to the critical load.

Technical Data		
Part Number	BCD000402000	BCD000802000
Description	BCD 402 2 batteries 40A	BCD 802 2 batteries 80A
Dimensions (L x W x H)	65 x 120 x 200 mm	65 x 120 x 200 mm



FUSES



BAINTECH Fuse Blocks

6 + 12WAY

Baintech's fuse blocks are a safe and easy-to-use hub for all your fuses. With durable marine grade terminals, Baintech Fuse Blocks will keep your system protected and help ensure all your connections are safely fused.

- Suitable for 12 or 24V systems
- Accepts STO and ATC standard fuses
- 2 year warranty

BTFUSEBLOCK RED INDICATOR LED

- Each fuse has red LED to indicate broken fuse
- Accessory Labels to help you keep everything organised



BTFB6R BTFB12R

Technical Data		WITH INDICATION LIGHT - Red LED indicates when fuse is broken		
Part Number	BTFB6R	BTFB12R	BTFUSEBLOCK6	BTFUSEBLOCK12
Fuse Outlets	6 outlets	12 outlets	6 outlets	12 outlets
Max Amps per Circuit	30A	30A	30A	30A
Max Amps per block	100A	100A	100A	100A
Max Voltage	32V DC	32V DC	32V DC	32V DC
Max Ambient Temperature	0 -50°C			
Dimensions (L x W x H)	125 x 85 x 39 mm	165 x 85 x 39 mm	87.75 x 88 x 36.5 mm	138.25 x 88 x 36.5 mm



BTFUSEBLOCK12

Midi

The Midi fuse fulfils most of the parameters associated with the Maxi fuse, however higher ampere ratings and a bolted fixing ensures optimum electrical connection and security. This space saving fuse provides for high current wiring protection and provides time delay characteristics with Littelfuse "Diffusion Pill Technology."

Part Number	Ampere Rating	Stamp Colour	Dimensions in MM		
			A	B	C
SWE-MID030 - 32V	30A	Orange	0.4 l	4.0	8.0
SWE-MID040 - 32V	40A	Green	0.4 l	4.0	8.0
SWE-MID050 - 32V	50A	Red	0.4 l	4.0	8.0
SWE-MID060 - 32V	60A	Yellow	0.4 l	4.0	8.0
SWE-MID070 - 32V	70A	Brown	0.4 l	4.0	8.0
SWE-MID080 - 32V	80A	White	0.4 l	4.0	8.0
SWE-MID100 - 32V	100A	Blue	0.63 l	4.3	8.3
SWE-MID125 - 32V	125A	Pink	0.63 l	4.3	8.3
SWE-MID150 - 32V	150A	Lt. Grey	0.63 l	4.3	8.3
SWE-MID175 - 32V	175A	Dark Grey	0.63 l	4.3	8.3
SWE-MID200 - 32V	200A	Violet	0.63 l	4.3	8.3



I.R.: 1kA at 32VDC

Voltage: 32VDC

Features: Element window

Pack Size: 2, 10, 100, 500, 1000

Holders: In-line, Blocks & Power Dist. Unit.

Mounting: M5 studs.

Options: Heavy Duty version (I.R.: 5kA at 14VDC), 58VDC version, M6 mounting version, single hole mount version also available.

Notes: * Short circuit protector only.

^Not UL recognised.

Mega

Designed for high current circuit protection up to 500A. Ideal for battery and alternator connectors and other heavy gauge cables requiring ultra-high current protection.

Part Number	Ampere Rating	Stamp Colour	Dimensions in MM	
			A	B
SWE-MEG040	40A	White	1.02	9.9
SWE-MEG060	60A	White	1.02	9.9
SWE-MEG080	80A	Red	1.02	9.9
SWE-MEG100	100A	Yellow	1.02	9.9
SWE-MEG125	120A	Green	1.02	9.9
SWE-MEG150	150A	Orange	1.02	9.9
SWE-MEG175	170A	White	1.02	9.9
SWE-MEG200	200A	Blue	1.02	9.9
SWE-MEG225	225A	Tan	1.02	9.9
SWE-MEG250	250A	Pink	1.02	9.9
SWE-MEG300	300A	Grey	1.83	10.67
SWE-MEG350	350A	Green	1.83	10.67
SWE-MEG400	400A	Purple	1.83	10.67
SWE-MEG450	450A	Orange	1.83	10.67
SWE-MEG500	500A	Brown	1.83	10.67



I.R.: 2kA at 32VDC

Voltage: 32VDC

Pack Size: 1, 10, 100

Holders: Inline, Blocks & Power Dist. Unit.

Mounting: M8 or 5/16" studs

Options: 58V version, Window element version, UL recognized Megafuse also available (80A-175A).

Notes: * Short circuit protectors only.

Maxi

As power demand in vehicles continues to grow, the need for electrical and fuel economy is driving the necessity for a more efficient automotive electrical system.

Part Number	Ampere Rating	Body Colour
SWE-MAX020	20A	Yellow
SWE-MAX025	25A	Grey
SWE-MAX030	30A	Green
SWE-MAX035	35A	Brown
SWE-MAX040	40A	Orange
SWE-MAX050	50A	Red
SWE-MAX060	60A	Blue
SWE-MAX070	70A	Tan
SWE-MAX080	80A	Natural
SWE-MAX100	100A	Violet



I.R.: 1000A at 32VDC

Voltage: 32VDC

Pack Size: 1, 10, 100

Holders: Fuse Clips, Inline, Fuse Blocks & Power Dist.

Autofuse 32V

Part Number	Ampere Rating	Body Colour
SWE-ATOF001	1A	Black
SWE-ATOF002	2A	Grey
SWE-ATOF003	3A	Violet
SWE-ATOF004	4A	Pink
SWE-ATOF005	5A	Tan
SWE-ATOF07.5	7.5A	Brown
SWE-ATOF010	10A	Red
SWE-ATOF015	15A	Blue
SWE-ATOF020	20A	Yellow
SWE-ATOF025	25A	Natural
SWE-ATOF030	30A	Green
SWE-ATOF035	35A	Blue/Green
SWE-ATOF040	40A	Orange



I.R.: 1000A at 32VDC

Voltage: 32VDC

Pack Size: 5, 10, 100

Holders: Clips, PCB Mount, Inline, Add-a-circuit, Panels, Fuse Blocks, Fused Terminal Blocks & Modular Blocks.

Notes: Replaces the previous ATF fuse. Nylon body provides a higher chemical and heat resistance than previous ATF style.

Autofuse Indicating 32V

Uses LED technology to indicate a blown fuse. Designed as a drop-in replacement for non-indicating autofuse. Same universal colour coding as non-indicating autofuses.

Part Number	Ampere Rating	Body Colour
SWE-ATFD003-32V	3A	Violet
SWE-ATFD005-32V	5A	Tan
SWE-ATFD07.5-32V	7.5A	Brown
SWE-ATFD010-32V	10A	Red
SWE-ATFD015-32V	15A	Blue
SWE-ATFD020-32V	20A	Yellow
SWE-ATFD025-32V	25A	Natural
SWE-ATFD030-32V	30A	Green



Voltage: 32V

Pack Size: 2, 5, 10, 100

Holders: Clips, PCB Mount, Inline, Add-a-circuit, Panels, Fuse Blocks, Fused Terminal Blocks & Modular Blocks.

Features: Autofuse with blown fault indicator.

Micro2 Fuse 32V - Single Element

Improved opening characteristics. The Micro2 and Micro3 blade fuses improves on the standard Minifuse maximum opening time of 600 seconds at 135% overload. They guarantee a much faster 120 second maximum opening time at 135% overload.

This will provide increased predictable protection of cables and devices. Foot print reduction. The Micro2 Blade Fuses feature smaller 5.0mm centerline spacing that allows for 38% reduction in spacing per fuse. Replacing a full vehicle electrical centre containing Minifuses with a combination of Micro2 and Micro3 fuses could achieve a 32% reduction in box size.



Part Number	Ampere Rating	Body Colour
SWE-MICR2005	5A	Tan
SWE-MICR207.5	7.5A	Brown
SWE-MICR2010	10A	Red
SWE-MICR2015	15A	Blue
SWE-MICR2020	20A	Yellow
SWE-MICR2025	25A	Natural
SWE-MICR2030	30A	Green

I.R.: 1000A at 32VDC

Voltage: 32VDC

Pack Size: 5, 10, 100, 500

HOLDERS: Add-a-circuit & inline.

Micro3 Fuse 32V - Dual Element

Part Number	Ampere Rating	Body Colour
SWE-MICR3005	5A	Tan
SWE-MICR307.5	7.5A	Brown
SWE-MICR3010	10A	Red
SWE-MICR3015	15A	Blue



I.R.: 1000A at 32VDC

Voltage: 32VDC

Pack Size: 5, 10, 100, 500

HOLDERS: Contact sales.

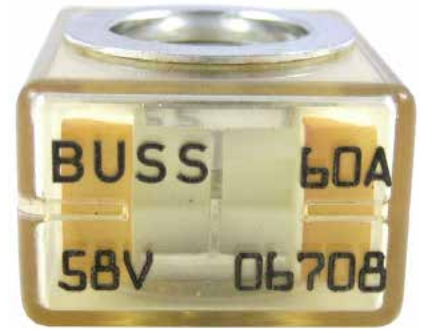
Features: 2 fuse elements in 1 fuse

Battery Fuse - Marine Rated 58V

Marine Rated Battery Fuses - designed for the most demanding environment to provide high current protection for the tightest space constraints. Suitable for main and auxiliary circuit protection such as alternator outputs, starter motor inputs, and accessory circuits. The breaking capacity meets the requirements of conventional vehicle batteries and 12V, 24V and 42V electrical networks.

Features:

- Extensive amperage range 30A to 300A.
- Voltage rating 58VDC max.
- Ignition protected per SAE J1117.
- Weatherproof (IP66).
- Functional after 500 hours salt spray and salt fog test.
- Clear element window, visual indication of blown condition.
- Colour coded for easy amperage identification.
- Several mounting options available. Accept mounting terminal size M8 max.
- Performance requirements per ISO8820-6.



Part Number	Ampere Rating	Face Colour
SWE-MRBF030	30A	Lt. Green
SWE-MRBF040	40A	Lt. Blue
SWE-MRBF050	50A	Red
SWE-MRBF060	60A	Gold
SWE-MRBF075	75A	Brown
SWE-MRBF080	80A	Lime
SWE-MRBF090	90A	Purple
SWE-MRBF100	100A	Yellow
SWE-MRBF125	125A	Green
SWE-MRBF150	150A	Orange
SWE-MRBF175	175A	White
SWE-MRBF200	200A	Blue
SWE-MRBF225	225A	Tan
SWE-MRBF250	250A	Pink
SWE-MRBF300	300A	Grey

Time Characteristic % of Amp Rating	Opening Time Minimum / Maximum	
	100%	>100hrs
135%	-	900 sec
200%	-	60 sec
350%	0.1 sec	1 sec
600%	-	<0.2 sec

I.R.: 2kA at 58VDC
5kA at 32VDC
10kA at 14 VDC

Voltage: 58VDC

Pack Size: 1, 10, 100

Housing: UL-rated 94V0 thermoplastic

Body: Ceramic

Ring Terminals: Tin plated

Holders: Battery Fuse Bar (p#).

Mounting: M8 studs

Approvals: ISO8820-6

Battery Fuse - Marine Rated 58V

Features:

- Isolated Single or Double Pole
- 6.35mm or 8mm stud
- Includes Cover (Red or Black)
- Includes nut and washer



CFBAR1SP-KIT
Single pole kit



CFBAR2SP-KIT
Double pole kit

Midifuse Block

Part Number	Description	Pack Qty
SWE-MIDFBB	Midi Fuse Block	1
SWE-08240RL	Terminal 2.5-4.0mm ² , M5 Hole (RL)	3000
SWE-08245RL	Terminal 6 - 8mm ² , M5 Hole (RL)	2400
08250RL	Terminal 10-16mm ² , M5 Hole (RL)	2400

Voltage: 32V

Rating: 125A

Body & Cover: Black PA66

Accessories: Includes cover & hex nuts

Studs: M5 threaded studs. Steel / Zinc plated.

Features: Inline or surface mounting options.

Pack Size: 1, 10, 100

Notes: Midifuse is not included.



Midifuse Block (Gangable)

Part Number	Description
SWE-498900	Hard Cover

Rating: 200A

Body: Black glass filled thermoplastic.

Accessories: Includes cover, hex nuts & lock washers.

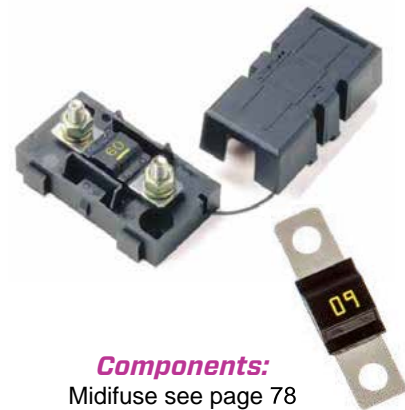
Studs: M5 threaded studs.

Cover: Black glass filled thermoplastic.

Features: Gangable

Pack Size: 1, 10, 100

Notes: The holders feature a stackable side design to allow multiple holders to be joined together. Fuse is not included.



Components:
Midifuse see page 78

Midifuse Multi-Pole Distribution Block

Bussmann now offers a heavy duty fuse panel called the LMI "Little Block". The LMI is used for main branch primary fusing and can be configured to fit up to 6 industry standard Midifuses all bussed to a single input stud. The LMI provides efficient power distribution suitable for many "under the hood" applications such as; Marine, Construction, Agriculture, Heavy Trucking, Bus and Specialty Vehicles.

Part Number	Description
SWE-LMI1-E-1-0	Midifuse module (#10-32 stud & keps nuts)
SWE-LMI1-E-1-1	Input module (5/16"-18 stud & keps nut)
SWE-B109-7046-2	Bus Bar (2 holes - spans 2 modules)
SWE-B109-7046-3	Bus Bar (3 holes - spans 3 modules)
SWE-B109-7046-4	Bus Bar (4 holes - spans 4 modules)
SWE-B109-7046-5	Bus Bar (5 holes - spans 5 modules)
SWE-B109-7046-6	Bus Bar (6 holes - spans 6 modules)
SWE-B109-7046-7	Bus Bar (7 holes - spans 7 modules)

Midifuse Module
LMI1-E-1-0



Input Module
LMI1-E-1-1



Sample Configuration:

- 2 x Midifuse Modules
- 1 x Input Module
- 1 x Bus Bar (3 holes)



Components:
Midifuse see page 78



Busbar (3 holes)
B109-7046-3

Megafuse Multi-Pole Distribution Block

The MEGA-Flex fuse holder is used with the MEGA® style bolt-in fuse, which is available up to 500A. This holder offers a flexible cover that allows cable entry from virtually any direction, large wire size, and ring terminal stack up. Slots on the base allow holder to be mounted with tie-wraps. Dovetail features allow you to interlock multiple MEGA-Flex holders together for a high power distribution block. It can also interlock with other Littelfuse products including FLEC, EPC, HWA, HWB, and Midi-Flex. Bus bars are also available for multiple holder applications.



Megafuse Block

Part Number	Description
SWE-02981028	Fuse Block with Zinc Plated Steel Studs & cover
SWE-02981028-SS	Fuse Block with Stainless Steel Studs & cover
SWE-882-839-2	Bus Bar (2 holes - spans 2 blocks)
SWE-882-839-3	Bus Bar (3 holes - spans 3 blocks)
SWE-882-839-4	Bus Bar (4 holes - spans 4 blocks)
SWE-882-839-5	Bus Bar (5 holes - spans 5 blocks)



Components:

Mega Fuses see page 79



Gang Mount with Bus Bar



Gang Mount Setup

- Voltage:** 32VDC
- Rating:** 500A
- Base:** Black UL 94V-0 Glass-filled PPA.
- Cover:** Black flexible UL94V-0 Elastomer. Red colour optional.
- Studs:** M8 x 1.25 threaded (zinc plated or stainless steel).
- Bus Bar:** Tin plated copper.
- Nuts & Washers:** same material as studs.
- Temperature Rating:** -40°C to 125°C
- Wire Size:** 8mm to 35mm 2/2
- Accessories:** Includes cover, hex nuts & split washers.
- Pack Size:** 1, 10, 100
- Notes:** Fuse & busbar are not included.

Megafuse Block (Gangable)

Part Number
SWE-2981001

- Rating:** 500A
- Body & Cover:** Black glass filled thermoplastic
- Accessories:** Includes cover, hex nuts & lock washers.
- Studs:** M8 threaded
- Features:** Gang mount (stackable side) design.
- Pack Size:** 1, 10, 100
- Notes:** Fuse is not included.



Megafuse Block

Part Number	Cover Type	Stud Type
SWE-FMG-211	Standard height	5/16-18
SWE-FMG-116	Extended height	M8

Rating: 500A
Body: Black UL rated 94V-0 thermoplastic
Accessories: Includes cover & sems nuts.
Studs: M8 or 5/16-18 threaded, zinc plated steel studs.
Wire Size: #8 AWG / 8mm²
Cover: Black flexible thermoplastic elastomer.
Options: Red colour cover also available.
Features: Cables can be routed to studs from nearly any direction.
Pack Size: 1, 10, 100
Notes: Fuse is not included.



Megafuse Distribution Block (Big Block)

Bussmann now offers a heavy duty power distribution module called the LMG (a.k.a. "Big Block"). The LMG is used for main branch primary fusing and accepts 2, 3 or 5 industry standard Megafuses. Utilizing a common bus bar, the LMG requires just one input connection to power all the fuses. The Big Block provides efficient power distribution suitable for many "under the hood" applications such as:

- Construction
- Agriculture
- Heavy Trucking
- Specialty Vehicles
- Marine
- Bus

Part Number	Number of Poles
SWE-LMG2-1-001	2
SWE-LMG3-1-001	3
SWE-LMG5-1-001	5

Rating: Maximum total combined rating is 300A continuous*.
Temperature: -40°C to 85°C
Body: Black UL-Rated 94 V0 thermoplastic.
Studs: 5/16"-18 plated steel (E), optional M8 metric studs(M).
Hardware: Includes all nuts & lock washers
Cover: Red EPDM (protection from accidental shorts).
Pack Size: Stock lines 1pc, indent items 20pcs
 Notes: *Maximum ampere rating based on numerous variations possible between numbers of poles used, fuses selected, input and output wiring, all applications should be tested by installer to verify the product meets their requirements. Fuses are not included.



SWE-LMG5-1-001

SWE-LMG3-1-001



Components:
 Mega Fuses see page 79

Maxifuse In-Line Holder

Part Number	Description
SWE-152001KIT1	Fuse holder kit, includes fuse holder body, cover, screws & terminals (2.5 - 6mm ²).
SWE-152001KIT2	Fuse holder kit, includes fuse holder body, cover, screws & terminals (5 - 10mm ²).
152001	Fuseholder body
152900	Clear cover
913-550	M5 x 8 Screw
913-653	Ring tongue terminal, 2.5 - 6mm ² (#12-10AWG).
913-654	Ring tongue terminal, 5 - 10mm ² (#10 - 8AWG).



Rating: 60A

Voltage: 32VDC

Terminals: Copper alloy

Body: Black thermoplastic (UL 94HB)

Cover: Translucent thermoplastic

Pack Size: 1, 10, 100

Features: Only 2 fuse blocks may be ganged together with a maximum fuse rating of 50A per block.

Notes: This product will only accept original Littelfuse Maxi Blade fuses (299 / 999 series). Fuse is not included. *It is recommended that cross linked polyethelene (GLX) insulated wire be used. Contact sales for more information.

Maxifuse In-Line Holder Splash Proof

Part Number	Description
MFHC	#6AWG gauge wire red.

Rating: 60A

Voltage: 32VDC

Wire: Includes 2 x 150mm leads of #6AWG.

Body Material: PVC

Pack Size: 1, 10, 100

Notes: Protective cover permits use in harsh under hood environments.



Maxifuse In-Line Holder Splash Proof

Part Number	Description
MAHC0001	#6AWG gauge wire black.
HHX	#6AWG gauge wire red.

Rating: 60A

Voltage: 32VDC

Wire: Includes 2 x 127mm leads of #6AWG.

Pack Size: 1, 10, 100

Feature: Mounting hole also permits easy bulkhead installation. Mounting hole permits 2 or more holders to be mounted together.

Notes: Protective cover permits use in harsh under hood environments.



'Marine Rated' Battery Fuse Bar Isolated Stud

Features:

- Suitable for DC Main, inverter, windlass, and bow thruster circuit protection.
- Mounts on a M10 (3/8") battery post, battery switch or busbar.
- Provides high current protection in tight space constraints.
- Weatherproof, suitable for small locations & other harsh environments.
- Simple, economical and compact circuit protection system. Satisfies ABYC 7.
- Santoprene red or black insulating cap prevents accidental shorts.

Choice of red or black covers



CFBAR2SP-KIT
Double Pole Kit

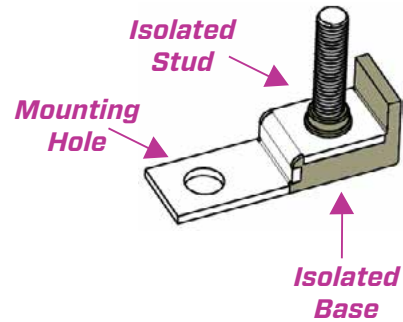
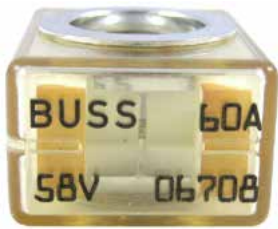


CFBAR1SP-KIT
Single Pole Kit

Part Number	Description	Stud	Cover
SWE-CFBAR1SP-KIT	Single pole kit	1/4"-20	Red
SWE-CFBAR1SP-KITB	Single pole kit	1/4"-20	Black
SWE-CFBAR2SP-KIT	Double pole kit	1/4"-20	Red
SWE-CFBAR1M8SPRK	Single pole kit	M8	Red
SWE-CFBAR1M8SPBK	Single pole kit	M8	Black
SWE-CFBAR2M8SPRK	Double pole kit	M8	Red
SWE-CFBAR2M8SPBK	Double pole kit	M8	Black

Components:

MRBF fuses
Ratings: 30A - 300A



BAINTECH Battery Fuse Kit 30A - 300A

Part Number	Description	Ampere Rating
BTBFK030R	Single Pole	30A
BTBFK040R	Single Pole	40A
BTBFK050R	Single Pole	50A
BTBFK060R	Single Pole	60A
BTBFK075R	Single Pole	75A
BTBFK080R	Single Pole	80A
BTBFK100R	Single Pole	100A
BTBFK125R	Single Pole	125A
BTBFK150R	Single Pole	150A
BTBFK175R	Single Pole	175A
BTBFK200R	Single Pole	200A
BTBFK225R	Single Pole	225A
BTBFK250R	Single Pole	250A
BTBFK300R	Single Pole	300A

BAINTECH Battery Fuse Kit - includes Fuse, Single Pole 1/4"-20 Stud Fuse Bar, Nut & Cover. This fuse kit directly connects to a bolt on the battery terminal and allows you to run all accessories through it. Provides high current protection in tight space constraints

Components:



MRBF Terminal Fuse Block



Marine Rated Battery Fuse

Circuit Breakers

Mid Range

This single pole thermal circuit breaker is external, ignition protected & weatherproof. Typically used in DC power systems in marine applications (as a main or branch circuit breaker), truck, bus & RV systems, as add-on protection for accessories, etc. Some models are sealed for engine compartment and bilge applications.

Auto Reset Type TI

Manual Reset Type TIII - PTT

Part Number	Part Number	Ampere Rating
25110-B-1	25510-A-1	10A
25115-B-1	25515-A-1	15A
25120-B-1	25520-A-1	20A
25125-B-1	25525-A-1	25A
25130-B-1	25530-A-1	30A
25135-B-1	25535-A-1	35A
25140-B-1	25540-A-1	40A
25150-B-1	25550-A-1	50A



Auto Reset
(251 series)



Manual Reset
w/PTT
(255 series)

High Amp - Surface Mount

Features:

- Superior moisture sealing.
- Robust thermoplastic case enclosure.
- Corrosion resistant studs & hardware.
- 1/4" or 3/8" stainless steel stud options.
- New side by side terminal option.
- Extended amperage ratings. 25A-200A
- Stronger rubber stud cap lead.

**Auto Reset
Type TI
1/4" Studs**

**Manual Reset
Type TIII PTT
1/4" Studs**

**Manual Reset
Type TIII PTT
3/8" Studs**

Part Number	Part Number	Part Number	Ampere Rating
SWE-171-S0-025	SWE-175-S0-025	SWE-175-S2-025	25A
SWE-171-S0-030	SWE-175-S0-030	SWE-175-S2-030	30A
SWE-171-S0-035	SWE-175-S0-035	SWE-175-S2-035	35A
SWE-171-S0-040	SWE-175-S0-040	SWE-175-S2-040	40A
SWE-171-S0-050	SWE-175-S0-050	SWE-175-S2-050	50A
SWE-171-S0-060	SWE-175-S0-060	SWE-175-S2-060	60A
SWE-171-S0-070	SWE-175-S0-070	SWE-175-S2-070	70A
SWE-171-S0-080	SWE-175-S0-080	SWE-175-S2-080	80A
SWE-171-S0-090	SWE-175-S0-090	SWE-175-S2-090	90A
SWE-171-S0-100	SWE-175-S0-100	SWE-175-S2-100	100A
SWE-171-S0-110	SWE-175-S0-110	SWE-175-S2-110	110A
SWE-171-S0-120	SWE-175-S0-120	SWE-175-S2-120	120A
SWE-171-S0-135	SWE-175-S0-135	SWE-175-S2-135	135A
SWE-171-S0-150	SWE-175-S0-150	SWE-175-S2-150	150A
SWE-171-S0-175	SWE-175-S0-175	SWE-175-S2-175	175A
SWE-171-S0-200	SWE-175-S0-200	SWE-175-S2-200	200A
SWE-171-S2-225			225A
SWE-171-S2-250			250A
SWE-171-S2-275			275A
SWE-171-S2-300			300A



**New Side By Side Terminal
(17x-S1 series 1/4" Studs)
(17x-S3 series 3/8" Studs)**



**Auto Reset
1/4" Terminal
(171-S0 series)**



**Manual Reset
W/PTT
3/8" Terminal
(175-S2 series)**

High Amp - Panel Mount

Features:

- Superior moisture sealing.
- Robust thermoplastic case enclosure.
- Corrosion resistant studs & hardware.
- Standard or 90 degree stud orientation

Auto Reset
Type TI
1/4" Studs

Manual Reset
Type TIII PTT
1/4" Studs

Part Number	Part Number	Ampere Rating
171-P0-025	175-P0-025	25A
171-P0-030	175-P0-030	30A
171-P0-035	175-P0-035	35A
171-P0-040	175-P0-040	40A
171-P0-050	175-P0-050	50A
171-P0-060	175-P0-060	60A
171-P0-070	175-P0-070	70A
171-P0-080	175-P0-080	80A
171-P0-090	175-P0-090	90A
171-P0-100	175-P0-100	100A
171-P0-110	175-P0-110	110A
171-P0-120	175-P0-120	120A
171-P0-135	175-P0-135	135A
171-P0-150	175-P0-150	150A
171-P0-175	175-P0-175	175A
171-P0-200	175-P0-200	200A



Auto Reset
Standard Studs
(171-P0 series)



Manual Reset
w/PTT
Standard Studs
(175-P0 series)



17x-P0 Series
Standard Studs



17x-P1 Series
90° Studs

Hi-Amp - Surface Mount

Typically used in auxiliary and accessory circuits for automotive & marine applications. Some models are sealed for engine compartment and bilge area applications.

30VDC
Automatic Reset
Type TI
Surface Mount

48VDC
Manual Reset
Type TIII PTT
Surface Mount

Part Number	Part Number	Ampere Rating
181025F-12-1	285025F	25A
181030F-12-1	285030F	30A
181035F-12-1	285035F	35A
181040F-12-1	285040F	40A
181050F-12-1	285050F	50A
181060F-12-1	285060F	60A
181070F-12-1	285070F	70A
181080F-12-1	285080F	80A
181090F-12-1	285090F	90A
181100F-12-1	285100F	100A
181110F-12-1	285110F	110A
181120F-12-1	285120F	120A
181135F-12-1	285135F	135A
181150F-12-1	285150F	150A



Auto Reset
(181 series)



Manual Reset
w/PTT
(285 series)

Hi-Amp - Panel

Typically used in auxiliary and accessory circuits for automotive & marine applications. Some models are sealed for engine compartment and bilge area applications.

30VDC
Auto Reset
Type TI
Panel Mount

48VDC
Manual Reset
Type TIII PTT
Switchable
Panel Mount

Part Number	Part Number	Ampere Rating
SWE-181025P-12-1	SWE-285025P	25A
SWE-181030P-12-1	SWE-285030P	30A
SWE-181035P-12-1	SWE-285035P	35A
SWE-181040P-12-1	SWE-285040P	40A
SWE-181050P-12-1	SWE-285050P	50A
SWE-181060P-12-1	SWE-285060P	60A
SWE-181070P-12-1	SWE-285070P	70A
SWE-181080P-12-1	SWE-285080P	80A
SWE-181090P-12-1	SWE-285090P	90A
SWE-181100P-12-1	SWE-285100P	100A
SWE-181110P-12-1	SWE-285110P	110A
SWE-181120P-12-1	SWE-285120P	120A
SWE-181135P-12-1	SWE-285135P	135A
SWE-181150P-12-1	SWE-285150P	150A



Manual Reset
w/PTT
(285 series)



Gasket Accessory

MRCB Surface & Panel

Typically used in DC power systems in marine applications (as a main or branch circuit breaker), truck and bus systems, and RV systems as add-on protection for accessories, lift gates, etc. This unit is external ignition protected and weatherproof.

Manual Reset
TIII
Switchable
Surface Mount

Manual Reset
TIII
Switchable
Panel Mount

Part Number	Part Number	Ampere Rating
SWE-187025F-03-1	SWE-187025P-03-1	25A
SWE-187030F-03-1	SWE-187030P-03-1	30A
SWE-187035F-03-1	SWE-187035P-03-1	35A
SWE-187040F-03-1	SWE-187040P-03-1	40A
SWE-187050F-03-1	SWE-187050P-03-1	50A
SWE-187060F-03-1	SWE-187060P-03-1	60A
SWE-187070F-03-1	SWE-187070P-03-1	70A
SWE-187080F-03-1	SWE-187080P-03-1	80A
SWE-187100F-03-1	SWE-187100P-03-1	100A
SWE-187110F-03-1	SWE-187110P-03-1	110A
SWE-187120F-03-1	SWE-187120P-03-1	120A
SWE-187135F-03-1	SWE-187135P-03-1	135A
SWE-187150F-03-1	SWE-187150P-03-1	150A
SWE-187200F-03-1	SWE-187200P-03-1	200A



Surface Mount



Panel Mount

Circuit Breakers



12VDC
Automatic T1
Plastic Cover
Cross Bracket



12VDC
Automatic T1
Plastic Cover
Parallel Bracket



12VDC - 24VDC
Manual T111
Plastic Cover
Parallel Bracket



12VDC
Automatic T1
Metal Cover
Parallel Bracket



12VDC
Automatic T1
Metal Cover
Cross Bracket

Part Number	Part Number	Part Number	Part Number	Part Number	Ampere Rating
SWE-121A05-A2P	SWE-121A05-B2P	SWE-123A05-B2P	SWE-121A05-B2M	SWE-121A05-A2M	5A
SWE-121A08-A2P	SWE-121A08-B2P	SWE-123A08-B2P	SWE-121A08-B2M	SWE-121A08-A2M	8A
SWE-121A10-A2P	SWE-121A10-B2P	SWE-123A10-B2P	SWE-121A10-B2M	SWE-121A10-A2M	10A
SWE-121A15-A2P	SWE-121A15-B2P	SWE-123A15-B2P	SWE-121A15-B2M	SWE-121A15-A2M	15A
SWE-121A20-A2P	SWE-121A20-B2P	SWE-123A20-B2P	SWE-121A20-B2M	SWE-121A20-A2M	20A
SWE-121A25-A2P	SWE-121A25-B2P	SWE-123A25-B2P	SWE-121A25-B2M	SWE-121A25-A2M	25A
SWE-121A30-A2P	SWE-121A30-B2P	SWE-123A30-B2P	SWE-121A30-B2M	SWE-121A30-A2M	30A
SWE-121A35-A2P	SWE-121A35-B2P	SWE-123A35-B2P	SWE-121A35-B2M	SWE-121A35-A2M	35A
SWE-121A40-A2P	SWE-121A40-B2P	SWE-123A40-B2P	SWE-121A40-B2M	SWE-121A40-A2M	40A
SWE-121A50-A2P	SWE-121A50-B2P	SWE-123A50-B2P	SWE-121A50-B2M	SWE-121A50-A2M	50A

Applications: Battery chargers, trucks, buses, RVs, trolling motors, etc.

Function Options: Auto, Manual or optional Modified Reset Circuit Breakers.

I.R.: 2.5kA @ 12VDC (Branch circuit protection), please contact sales for further info.

Voltage: 14VDC (121 Series), 28VDC (123 series)

Operating Temp: -40°C to 85°C, Storage Temp: -40°C to 125°C

Features: Ignition Protected

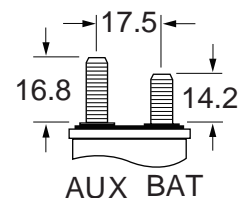
Ingress Protection Rating: IP66* (on plastic cover type only, excludes terminals).

Pack Size: Stock lines 1pc, indent items 250pcs.

Mounting Hole: Bracket mounting holes 4.98 mm diameter.

Notes: Keep lock nuts included with circuit breakers.

Terminal Specs



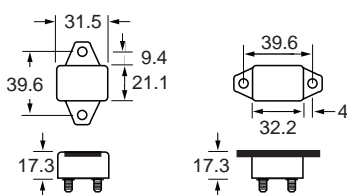
Two 10-32 studs

Connect the short stud to battery + ; long stud to auxiliary. There will typically be only one connection from the breaker to the battery, but there might be several connections to loads on the longer stud.

Plastic Cover Type

(Cross)

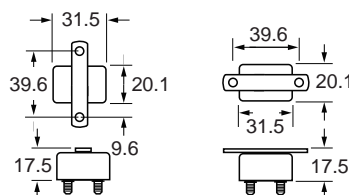
(Parallel)



Metal Cover Type

(Cross)

(Parallel)



Terminal Boot Accessory

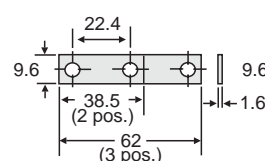
Part Number	Description
SWE-CBBB	Black Terminal Boot
SWE-CBBR	Red Terminal Boot



Notes: Material PVC. Max operating temp 105°C. Protects terminal connections from accidental shorts. Use to comply with ABYC E-9, USCG 33pl, & ISO 10133. Fits breakers with or without brackets. Cable entry 18-10AWG.

Bus Bar Accessories

Part Number	Description
SWE-CBBB2	2 Position Busbar
SWE-CBBR3	3 Position Busbar



Dimensions in MM



Notes: Brass Tin Plated. Suitable for use with breakers fitted with a parallel bracket or no bracket.

WARRANTIES



Bainbridge Technologies' commitment to supporting the products it sells, extends well beyond the warehouse doors. In fact, we pride ourselves on the high level of after sales service and support that we offer.

The reality of dealing with technical products is that occasionally things can go wrong. Sometimes it can be the product and sometimes it can be environmental issues like voltage spikes or problems in electrical systems. So if you are in the unfortunate situation of needing to lodge a warranty claim here is a quick guide to the key factors of Bainbridge Technologies warranty system.

A. Before sending any unit back for warranty please ensure you have completed the following:

1. Serial Number Check – To ensure that the product was purchased from Bainbridge Technologies
2. A completed Return Authority Form - see *next page* - copy or scan to return
3. A Proof of Purchase (invoice, receipt, invoice number)

Products returned without valid paperwork will not be accepted as warranty items.

B. Repaired or exchange products have a warranty of either 90 days or the remaining warranty on the original product - whichever is longer

C. Warranty processing can take 2-4 weeks, depending on the item returned, we appreciate your patience and will endeavour to get your warranty out as soon as possible.

All warranty returns are sent to 1224 Lytton Rd Hemmant, QLD 4174 and must be accompanied by all paperwork.

For full information please visit baintech.com.au/warranty



RETURN AUTHORITY

Please return this completed form with your item



Tyrrell Family Trust No. 2 for Sunfrt Pty Ltd T/A

ABN: 36 510 947 614

Phone: 1300 224 683

Email: sales@baintech.com.au

Date: _____

Your details (where the goods will be returned to).

Contact Name: _____

Phone No: (____) _____ Mobile No: _____

Company Name (if applicable): _____

Address: _____

Suburb: _____ State: _____ Post Code: _____

The details of the store / company that you purchased the item from.

Store / Company Name: _____

Store / Company Address: _____

Suburb: _____ State: _____ Post Code: _____

Email: _____ (Please include email for Warranty Status updates)

The details of the item that you are returning.

Make: _____ Model: _____ Serial No: _____

Description of problem: (if more space is required please attach and say "see attached" - please note any items attached to the product (such as brackets) which need to be returned)

Is the fault that is described above intermittent? NO YES

I am returning this item for replacement or credit if applicable. (Bainbridge account holders only) YES

I am returning this item for repair. YES

Date of Original Purchase: _____ Tick to confirm that you have attached a copy of your proof of purchase.

No fault found or non-warranty repairs will incur a minimum fee of \$35. Refer to the full policy for more detail.

Prior to returning electrical items such as Battery Chargers & Inverters please perform the following tests.

- Battery Condition** - Please check the condition of the battery (specific gravity, check for shorted plates etc)
- Quality of Power Supply** - Stability of power supply is important for the correct operation of battery chargers. Voltage spikes, low or excess voltage can all affect the performance of the charger.
- Excessive Load** - If you are returning an inverter that is cutting out please ensure that the load being supplied does not exceed that of the unit. It is worth noting that some microwaves may say 600W but in fact draw up to 1500W when heating.

WARRANTY CLAIM CHECK LIST

- Complete this Repair Authority form and return this with the goods. This form can be found at www.baintech.com.au/warranty
- Be sure to include a copy of your original proof of purchase (invoice or receipt)
- Please remove and retain all accessories or cables that are not related to or part of the fault.
- To assist our technicians please include a full description of the fault and the circumstances in which the fault has occurred.
- Return the goods along with the Repair Authority to:

Return all goods to:

BAINBRIDGE TECHNOLOGIES

1224 Lytton Road

HEMMANT QLD 4174

LIMITED WARRANTY STATEMENT

Sunfrt Pty Ltd t/a Bainbridge Technologies
ACN: 119 338 671 ABN: 36 510 947 614

THE EXPRESSED LIMITED WARRANTY (“WARRANTY”) TERMS AND CONDITIONS

BAINBRIDGE TECHNOLOGIES DOES NOT WARRANT THAT OPERATION OF THIS PRODUCT OR GOODS WILL BE UNINTERRUPTED OR ERROR FREE. YOU MUST READ AND FOLLOW ALL SET-UP AND USAGE INSTRUCTIONS IN THE PROVIDED MANUALS. IF YOU FAIL TO DO SO, THIS PRODUCT MAY NOT FUNCTION PROPERLY OR MAY SUFFER DAMAGE.

General Terms

This warranty against defect applies to product imported and sold by BAINBRIDGE TECHNOLOGIES – 1224 Lytton Rd, Hemmant QLD 4174 (“BAINBRIDGE TECHNOLOGIES” or “Manufacturer”) through its Authorised Resellers, Retailers and Distributors (“Reseller”), and applies only to product that is new, or refurbished and certified by BAINBRIDGE TECHNOLOGIES, on the date of purchase, and for which you have an invoice showing proof of purchase. Any service outside the scope of this Warranty shall be at BAINBRIDGE TECHNOLOGIES, its Authorised Service Providers or the Resellers rates and terms then in effect. BAINBRIDGE TECHNOLOGIES recommends that you confirm these rates and terms prior to any service or repair agreement on your product. BAINBRIDGE TECHNOLOGIES reserves the right to modify the terms and conditions of this Warranty, including fees at any time.

Consumer Guarantees (Australia only)

Consumer Guarantees apply to goods bought on or after 1 January 2011 by a consumer from a Reseller, in the course of a normal trade (not by way of auction where the auctioneer acts as agent of the owner(s)), and where the goods are normally used for personal, domestic or household purposes.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

This Warranty is not intended to and does not limit your rights with respect to the Consumer Guarantees (in Australia) or Consumer Guarantees Act (in New Zealand). This Warranty does not provide for remedy of failure caused by improper installation, operation, cleaning or maintenance, accidental and physical damage, misuse, abuse, non-approved modifications to the goods, software faults, normal wear and tear or any other event, act, default or omission outside BAINBRIDGE TECHNOLOGIES control.

The product you have purchased is not designed for any “critical applications.” “Critical applications” means life support systems, medical applications, connections to implanted medical devices, commercial transportation, nuclear facilities or systems or any other applications where product failure could lead to injury to persons or loss of life or catastrophic property damage.

Warranty Period

Subject to the opening paragraph, BAINBRIDGE TECHNOLOGIES expressly warrants this product to be free from operational defects in workmanship and materials (“defect”) for a period of one(1) to five(5) years from the date of purchase, dependant on model. For confirmation of the Warranty period applicable to your model and updates to this Warranty terms and conditions, please refer to BAINBRIDGE TECHNOLOGIES website www.baintech.com.au or contact BAINBRIDGE TECHNOLOGIES (contact details below)

Recommended Action for a Remedy

Problem	Recommended action
The product arrives damaged, incomplete, does not substantially match description or is not substantially fit for purpose.	Contact your Supplier (or place of purchase).
The product has warranty related fault that is within the warranty time frame specified on the packaging or on the Bainbridge Web Site.	Return the product to your reseller for refund or exchange, subject to and in accordance with the reseller's policy.
The product has warranty related fault after the timeframe specified by the Supplier's refund/ exchange policy.	Contact BAINBRIDGE TECHNOLOGIES to determine and arrange the best service option for you.
The product has physical damage or exhibits a fault not related to the BAINBRIDGE TECHNOLOGIES warranty.	Contact BAINBRIDGE TECHNOLOGIES. Service shall be at BAINTECH or its Authorised Service Provider's rates and terms then in effect.

How to Obtain Service

1. Consult the Users' Guide (copy provided with your product or available for download from the products section of our website).
2. If the product still exhibits the problem, contact BAINTECH within the Warranty period and no later than 30 days after the discovery of the claimed defect (whichever is the earlier)
3. Complete the Bainbridge Repair Authority Form and return this with the goods. Please refer to the link at the top of this page, be sure to include a copy of your original proof of purchase (invoice or receipt).
4. Please remove and retain all accessories or cables that are not related to or part of the fault. To assist our technicians please include a full description of the fault and the circumstances in which the fault has occurred.
5. Return the goods along with the Repair Authority to the address shown below.
6. BAINTECH maintains serial number records (where applicable) of warranty entitlement for all products shipped and/or registered, and this will be used to validate your end warranty date. If you disagree with BAINTECH identification of warranty entitlement, you must provide proof of purchase before any warranty service can be performed.
7. IMPORTANT note: –“BAINTECH” cannot be held responsible for loss of data. In some products, repair to the goods may result in loss of the data. This may include, for example, settings or recorded data. BAINTECH recommends that you back up and secure your data prior sending the goods for repair or service.

International Warranty

Sales of product to purchasers outside Australia are sold on the following conditions:

1. Warranty applies as per the provisions specified above provided that, Complimentary courier pickup and return service does not apply to any service outside of Australia and New Zealand.
2. Any statutory warranties imposed by the jurisdiction in which the purchaser resides are excluded to the maximum extent allowed by law.
3. In New Zealand our products come with guarantees that cannot be excluded under the Consumer Guarantee Act 1993. This warranty applies in addition to the conditions and guarantees implied by the Consumer Guarantee Act 1993.
4. Warranty service availability, coverage and response times may vary from country to country.

Bainbridge Technologies Technical Centre

Bainbridge Technologies provides limited complimentary technical phone support for your product. Expert staff provide technical assistance during normal business hours, 5 days a week. Be sure to have the following information available before you call:

- Your product's model and serial number
- A description of the problem or fault

Australia : 1300 224 683

New Zealand : +61 7 3348 8082

BAINBRIDGE TECHNOLOGIES

PO BOX 7222

Hemmant, Australia QLD 4174

FREIGHT RESPONSIBILITY

If Courier Pickup and Return is required for your product, you are required to contact BAINBRIDGE TECHNOLOGIES to arrange this service using BAINBRIDGE TECHNOLOGIES designated freight carrier. BAINBRIDGE TECHNOLOGIES will not accept charges or liability for any freight arranged by you. Please ensure that the product is sufficiently padded and boxed for transport. BAINBRIDGE TECHNOLOGIES does not accept any responsibility for product damaged in transport due to inappropriate packaging. This courier service is only applicable between your location and Bainbridge and may not be available in some areas. Transport time varies depending on location.

PRIVACY STATEMENT

Information supplied by you is used by BAINBRIDGE TECHNOLOGIES to process your request and to perform a warranty action. No information will be disclosed without your permission. Refer to BAINBRIDGE TECHNOLOGIES website for more information. You have a right of access to information which BAINBRIDGE TECHNOLOGIES may hold about you. You may request the correction of that information.

Baintech Return Authority Form V6