



Marine Catalogue 2025

A breakdown of what Sterling recommends and offers for the marine market, including :

- New IP68 rated battery to battery chargers
- New IP68 rated AC to DC chargers
- New range Induction hobs
- Inverters and inverter chargers
- AC/DC chargers, including the PCU
- New 'Vulcan' range of 5500W Hybrid Inverters
- Portable Power Supplies - Hardy | Anders
- Accessories and more!

STERLING
POWER



WELCOME CONTENTS PAGE

AC/DC Chargers

Pg.03	Pro Charge Ultra 2
Pg.04	LPCU - Pro Charge Ultra Lite
Pg.05	Universal Battery Charger - UBC
Pg.06	Waterproof/Dustproof IP68 Multi-Output Charger - AQ Range

DC/DC Chargers

Pg.07	Saturn Series Bidirectional DC/DC Chargers
Pg.08	Saturn Series - Pt.02
Pg.09	Waterproof DC/DC Charger, with Solar MPPT - BBWS
Pg.10	Pro Batt Ultra range
Pg.11	BB Solar and BB Waterproof DC/DC chargers

Inverters and Combis

Pg.12	Vulcan Series, High power inverter/charger systems, with Solar or HVDC input
Pg.13	Vulcan-T Series, the Vulcan with additional Three Phase capabilities.
Pg.14	New PS and QS Inverter ranges
Pg.15	New Sterling Combi and High Voltage Protection Device (PCS and HVPD)
Pg.16	Pure Sine Inverters, SIB range
Pg.17	Quasi Sine Inverters, I range

Solar

Pg.18	Solar Regulators, PWM and MPPT
Pg.19	Solar Accessories Pt.01
Pg.20	Solar Accessories Pt.02

Alternator Charge Systems

Pg.21	Alternator Regulators
Pg.22	Alternator to Battery Chargers (ABxx)

Relay Splitters/Distributors

Pg.23	Pro Split Relay - PSR
Pg.24	Pro Split Latching - PSL
Pg.25	Current Limiting Voltage Sensitive Relay - CVSR
Pg.26	Voltage Sensitive Relays & Ignition Fed Relays
Pg.27	Latching Relays - LR

Accessories

Pg.28	Battery Maintainer
Pg.29	Power Management Panel
Pg.30	Pro Pulse Waterproof
Pg.31	AC32A
Pg.32	Zinc Savers
Pg.33	Pure Sine Induction Hobs
Pg.34	Bluetooth Active Battery Monitor 2 - BM2
Pg.35	Fuses and Fuse Holders
Pg.36	Electrical Latching Board ELB
Pg.37	Split Charge Diodes + Isolation Switches
Pg.38	High Voltage Disconnect (DC) / System Guard - HVDC
Pg. 39-42	Hardy Anders Portable Power Supply <u>NEW</u>

End

Pg.43	Other Catalogues and Cable Chart
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Welcome

Welcome to Sterling Power Products' 2024 catalogue, and thank you for taking your time to look through this breakdown of our current and upcoming offerings to the power market. With the market slowly returning to what it used to be, we're excited to provide you with the best equipment and support we can.

If you require any clarification, consultation or would like to express your interests in an order with any Sterling product, please email us at info@sterling-power.com, or give us a call on 01905 771771.

Warranty and Terms

Your 100% satisfaction is our goal. We realise that every customer and circumstance is unique. If you have a problem, question or comment please do not hesitate to contact us. We welcome you to contact us even after the warranty or return time has passed.

Each product manufactured by Sterling Power comes with at least a 2 year limited factory warranty, when sold from new. Certain products have a warranty period of time greater than 2 years. Each product is guaranteed against defects in material or workmanship from the date of purchase. At our discretion, we will repair or replace free of charge any defects in material or workmanship that fall within the warranty period. Our full warranty terms and sales terms are available on the sterling-power.com website.

PRO CHARGE ULTRA 2 Marine Grade Global Input AC/DC Battery Charger, Updated

AC Input OR DC Input	90-270VAC // 45-65Hz, perfect for generator use 130-320VDC
Efficiency	90.4%
Battery Chemistries	Suitable for all battery types within the voltage range. Lithium included.
Number of outputs	Dependent on model. PCU1210 has two outputs. All other models have three outputs.
Preset Battery Profiles	11 preset battery types, including 4x lithium presets. In the unlikely case none of our presets suit your batteries perfectly, we also have two custom profiles. One for lithium custom, one for lead acid custom.
Lithium Features	Live output voltage so as to offer the ability to wake up a dormant BMS Low temperature (0DegC) charge disconnect (In place of the temperature compensation featured on lead acid) A feed that allows your BMS to disable charge, with either a positive or resistance based connection
Operating Temperature	-40DegC to +60DegC
Approvals	UL, UKCA, CSA, CE, EN, TUV, CEC Compliant
Signal Output	0.25A signal output that mirrors the active output voltage, useful for signalling relays or other voltage based controls
Total Harmonic Distortion	2.4% on voltage and current
Display Accuracy	+/- 1% on voltage and current
Power Factor	0.976 at 230V
Warranty Period	Five years
Protections	Temperature sensor protections Fan obstruction monitoring DC High Voltage Trip DC Low Voltage Trip DC Output Fault (Reverse Polarity) BMS shutdowns
Improved Ergonomics	A rearrangement of the terminal access and of the endcap itself offers an improved user experience. Side latches allow quicker and simpler access to the cable access if desired.

Remote Control A remote control with display is available. Code : **PCUR**



- Displays voltage, current.
- Multi-lingual
- Charging stage and duration
- Chosen battery type
- Temperatures
- Errors
- 3m of cable

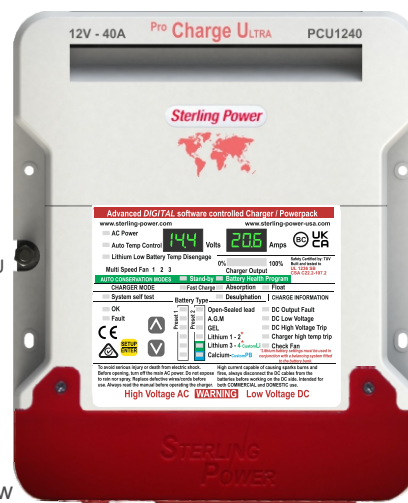
Models

DC (V)	Rating (A)	Size	SKU
12	10	A	PCU1210
12	20	A	PCU1220
12	30	A	PCU1230
12	40	A	PCU1240
12	50	B	PCU1250
12	60	B	PCU1260
24	20	A	PCU2420
24	30	B	PCU2430
32	20	B	PCU3220
36	20	B	PCU3620
48	15	B	PCU4815

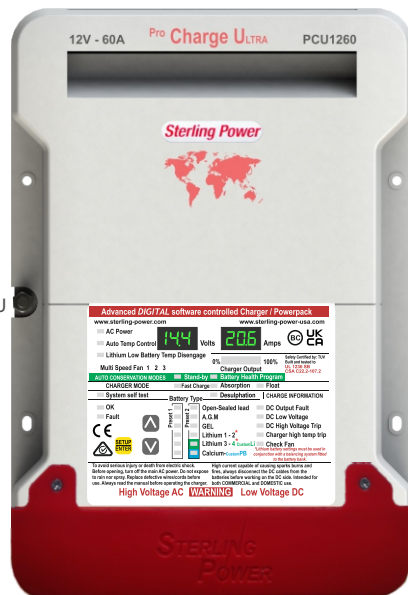
Size A - 260mm x 215mm x 90mm

Size B - 315mm x 215mm x 90mm

Size A PCU



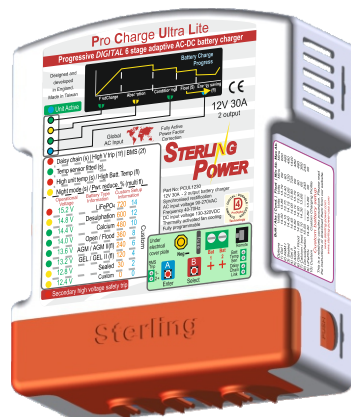
Size B PCU



PCUL Pro Charge Ultra Lite

Pro Charge Ultra Lite	Sterling's Pro Charge Ultra Lite builds upon the market leading groundwork of the PCU to allow a budget sensitive market access to our charge technologies.
True Global	The PCUL, like the PCU, is a true global charger. It will operate from 80-270VAC and 130-320VDC.
230V/110V Performance	230VAC performance is 20A/DC. 110VAC performance is 20A/DC.
PCUL vs PCU	There's a number of key differences between the Ultra and the Ultra Lite that will help you make your decision.
Size	The Ultra is larger due to it needing to meet the ABYC 40 Deg C+ high ambient temperature performance standards, and to fit the more advanced electronics. The Lite has an operational range in the 20 Deg C+ (a more common standard for non ABYC) and therein is in a smaller body.
Interfacing	The Lite displays less information on the front panel than the PCU.
Certifications	Although built to UL standards, the Lite is NOT UL certified. It is also not CEC certified, unlike the PCU.
DC Outputs	The Lite has a maximum of 2 DC outputs, the PCU has 3.
Warranty Period	The Lite has a factory two year warranty, the PCU has a 5 year warranty.
Efficiency	The PCUL is rated to over 90% efficient, thank to its active power factor correction.
Charge Profiles	8 pre-programmed charging profiles, including lithium, and a fully customisable profile for the user to program to their own specifications.
LED Display	18 LED panel for clear understanding of functions.
Temperature Signals	Battery temperature sense compensation and daisy chain temperature sensing, allowing greater charge optimisation and safety.
Modular Systems	The PCUL can be ran in series or in parallel with other PCULs, allowing completely modular charge systems.
Night Mode	Night mode forces the unit to run at 1/2 power for a fixed time frame, keeping fan noise to a minimum.
Generator Use	Perfect for generator use, due to its broad range of operating voltages and the ability to reduce the output power of the unit itself, complimenting a wide range of shore power and generator connections.

Models	Model	Current Rating	Outputs	Weight	Voltage	Size/mm
	LPCU1230	30A	2	2.5kg	12V	198 x 158 x 70
	LPCUR		LPCU Remote			54mm diameter
	TSAY		Battery Temp Sensor			
	TSD50	50 Deg C	Daisy Chain Sensor			
	TSD60	60 Deg C	Daisy Chain Sensor			



LPCU

UBC1210 Global input, Lithium suitable, cost effective AC/DC charger

Key Features

Hyper-simple install

Universal input (100VAC-250VAC)

12V 10A Rated

14.4V/13.5V charge targets

PRODUCT CODE : **UBC1210**



Universal Input

The UBC1210 was designed to be a simple, cost efficient solution to small systems that need to be able to operate anywhere in the world. With an input voltage range of 100-250VAC you can pair this with your vehicle wherever you end up. America, Europe, Japan or even that little generator at the bottom of the field... You'll have power.

Reliable Power, Anywhere

Ideally suited for touring vehicles/vessels that will travel far and wide but do not need a complex charge system to maintain their starter batteries, or perfect for garages and showrooms anywhere in the world!

Simple Install

With a basic 3 pin input plug and two crocodile clips for the output, there's not much more that needs to be done. So long as you have an adapter suitable for where you're going (or can source a suitable 2-pin lead with a plug for your location) you need nothing else to maintain your battery.

Common Charge Profile (14.4V Absorption - 13.5V Float)

You wouldn't believe how many times we've told people to just leave their chargers on the default settings- and in this case, that's your only option. The charge voltages of 14.4V and 13.5V float are suitable for the absolute overwhelming majority of 12V batteries (though please do check with your battery manufacturers spec sheet) so this is another one of our items that is designed, intentionally, to be fit-and-forget.

Smart, Strong, Simple

The UBC may look simple (and the install is as simple as it looks), but that doesn't make it a dumb charger. A three stage charge cycle (bulk, absorption, float) ensures that your batteries are being looked after and with a litany of integrated protections and resiliency (reverse polarity, over/under voltage) it should be able to power through any conditions - though please do try to install it correctly!

Sleeping Lithium Suitable

If a lithium battery BMS turns off and isolates the battery from the circuit, many chargers would simply enter a fault-state, complaining that there is no battery voltage to charge. The UBC pulses a live charge voltage even without battery voltage being present so as to provide a safe condition for your battery to wake up. This should work on most sleeping lithium states!

Multi-UBC Systems

If you have multiple batteries (24V/48V stack of 12V batteries) or just want a higher charge current... use multiple!

VAC In	Hz In	Charge Current (DC)	Absorption (V)	Float (V)	Dimensions (mm)
100-250	40-70	10A	14.4	13.5	175 x 75 x 45

STANDARDS : SAFETY :

EN60950-1 EN60335

EMC :

EN55022

APPROVALS

CE, RoHS, FCC, SAA, C-TICK

DC croc clip length

1m

AC cable length:

1m



AQ SERIES Waterproof Global AC/DC charger with multiple isolated output lines

AQ Series Charger KEY FEATURES

IP68 waterproof and dustproof

Multiple Output Charger

10A Per Line

Isolated Output Lines

Global AC input (100V-250V)

The AQ Series

Modern, Sealed chassis

Multiple Isolated Outputs

Global input, 3 stage charger

LED Charge Display

Sealed/IP68 rated

Charge Profile ::
14.4 Absorption, 13.5V float
10A

Example format of charging a
48V stack using multiple AQ
outputs



The AQ series of chargers is designed to make your power easily controllable and easily available. A truly waterproof and global input means it's the perfect companion for you irregardless of where you are or what you're doing.

With it's sleek design, compact size and waterproof casing, the AQ series charger is the perfect travel companion for leisure or work.

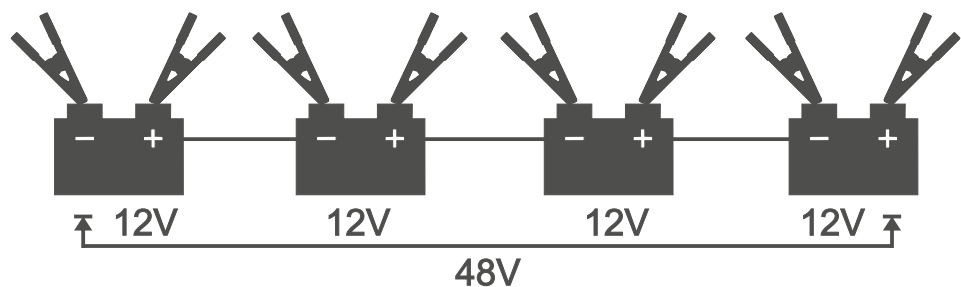
Perfect for systems with multiple batteries- either multiple battery banks that need to all be maintained individually, or battery banks in series (24V, 36V, 48V, 60V) where you need each battery line individually balanced and maintained.

Charge your batteries to **100% full** wherever you are in the world, with an input voltage as low as 100VAC, all the way up to 250VAC.

The AQ range of chargers have clear LED indicators on each isolated charge line, so you know exactly when your batteries are full or how far along the charge process is at just a glance.

Truly waterproof, truly dustproof and truly resilient. The AQ range of chargers was designed for adverse conditions like an open sea, storm or desert... If your charger needs to endure between uses (or even during use...) the AQ range of chargers will be perfect.

One common profile, suitable for an overwhelming majority of battery types (even for waking sleeping LiFePO4 batteries) means you shouldn't need to worry about setting your system up. Plug in, clip on, batteries charge.



VAC In (Hz)	DC Voltages	Power	DC Output	Outputs	Dimensions (mm)	Product Code
100-250 (40-70)	12V	150W	10A	1	84 x 211 x 70	2.1kg AQ1210
100-250 (40-70)	12V 24V	300W	10A(x2)	2	151x 211 x 70	3.85kg AQ2410
100-250 (40-70)	12V 24V 36V	450W	10A(x3)	3	218 x 211 x 70	5.5kg AQ3610
100-250 (40-70)	12V 24V 36V 48V	600W	10A(x4)	4	290 x 211 x 70	7.5kg AQ4810
100-250 (40-70)	12V 24V 36V 48V 60V	750W	10A(x5)	5	357 x 211 x 70	9.35kg AQ6010

SAE connectors - with croc clip or 8mm ring terminal extensions. Total DC cable length is 1.5m. Due to SAE connectors, the cables can be extended. 8mm rings connectors are fused at 15A.

UK plug as standard - as universal AC - plug can be changed to US. 1m length.

SATURN SERIES Bidirectional Battery to Battery Charger | Featuring our newest Buck-Boost technologies

Product Images

Saturn Series Key Features

High efficiency (~98% peak)

Bidirectional charging

Euro 6/7 suitable

Vibration and ignition activation

Lithium suitable/current limiting

Smart DC/DC charging

E-Marked (E24), CE marked



Introduction

Sterling has continued to innovate in the DC/DC charging market and the newest range, the Saturn series, is the culmination of our market knowledge that we've accumulated over the years. Market leading power, efficiency and capabilities are the cornerstones of a product that we expect to exceed your expectations.

Buck/Boost Technology

96-98% efficiency, offering you the best harvest from point A to point B and the coolest running, too. Fan cooling (on units 40A rated or above) and a metal chassis means we'll be running at full power all day long.

Charge While Driving

When your engine is running the Saturn charger will be charging your leisure battery at your chosen battery charge profile, using your alternator as the power source. The Saturn is even suitable for Euro-6, Euro-7 and Electric vehicles, in various configurations. It's the best way of safely and intelligently charging a rear battery system when driving.

Bidirectional Charger

One of the most important features of the Saturn is actually what it does when you're not driving. When you have excess charge available on your leisure battery from Solar or Shore Line Charging* the Saturn charger will automatically engage its reverse charge feature. The reverse charge current varies per unit (available on the model table on the next page) and the reverse charge voltage is 13.4V (26.8V at 24V). This voltage is perfect to maintain your starter battery at a happy float voltage.

Simple Install

Positive input from your starter battery, positive output to your leisure batteries and a common negative throughout. The only additionally required cable is going to be the ignition feed and that's only if you have a smart alternator, or a slightly low input voltage.

Euro 6 / 7 and Smart Alternator Compatible

Smart alternators pose a challenge to many DC/DC chargers, but our ability to be ignition controlled or even vibration controlled ensures that the Saturn runs whenever your key is turned, like you want it to.

Current Limiting + Lithium Suitable

The inherent current limiting nature of our Saturn units ensures that you have predictable equipment and performance vectors for when planning your system. It ensures your batteries are charged within a current range that they want and, so long as correctly rated, will ensure your alternator isn't being overworked.

More lithium features

Reliable and controlled voltage output, live output modes (to wake a sleeping BMS), low temperature output shutdowns (0DegC) and 2x lithium suitable charge presets.

6 Preset charge profiles +1 custom profiles via remote

The Saturn series of chargers have 6 integrated presets for you to choose from. These are suitable for a broad range of batteries and we've tried to make them as applicable as possible. In the unlikely possibility that our presets are not suitable, you can use the BBR remote (next page) to set a custom profile.

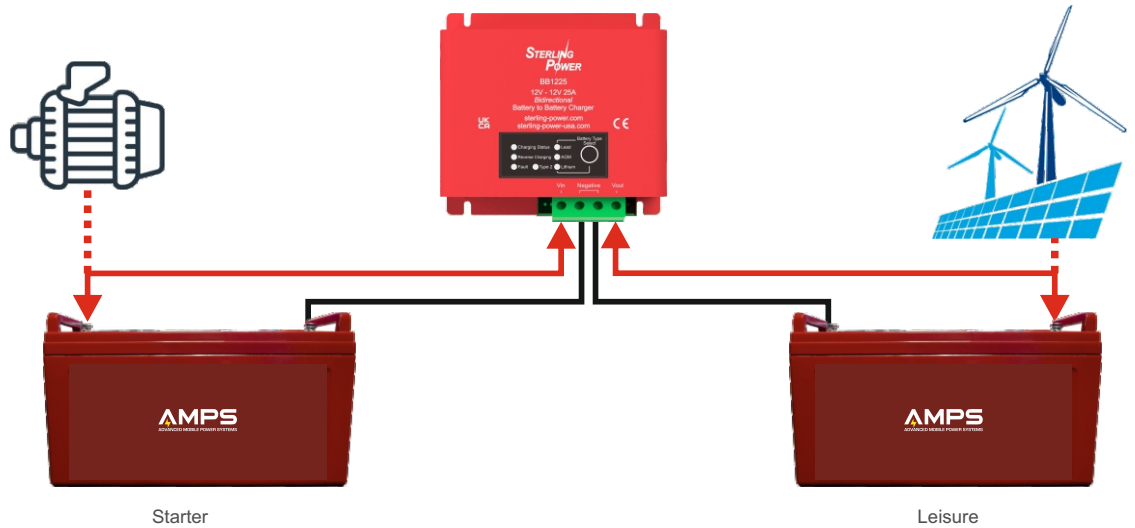
Cross Voltage Thresholds

The Saturn opens up a whole range of possibilities- offering the possibilities of moving to 24V or even 48V leisure/domestic systems.

* (Reverse charge engages at >13.8V in lithium settings, >13.6V in other settings. Multiply by 2 for 24V and 4 for 48V)

SATURN SERIES Bidirectional Battery to Battery Charger | Featuring our newest Buck-Boost technologies

Benefits of a bidirectional charger



1. Distribute your power

More and more power systems are incorporating solar or even wind regulated charge on their leisure/domestic batteries, because who doesn't like self-maintaining systems?

The one problem with this is that typically these regulators do not offer means for multiple battery banks to be cared for - and especially not across voltage ranges (24V and 12V for example). With a Saturn charger in place, we can ensure that you're maintaining the starter when parked, and maximising the leisure charge when you're in motion.

2. Always good to go

As an extension to the above- many vehicles will be sat passively for most of the year - and whether it's for work, leisure or an emergency, you probably want your vehicle to be good to drive when you get back to it.

With a charger on your leisure system (Solar or AC), all your banks will be kept good-to-go and you'll never have to worry about cancelling a meeting, cancelling a job or cancelling the holiday just because you can't turn the key.

3. Self-Recovery

In the worst case scenario- you've come to start your vehicle but the starter battery is drained... the BB can still be a lifeline to get you back in action. Our reverse charge feed can be engaged for 20 minutes, at will, manually. If you need to throw a bit more charge into the starter battery and get yourself back in action simply engage this feature, make a coffee, come back and hopefully you're good to go.

Remote Product code : BBR

The Saturn remote (product code BBR) gives users or installers access to a lot of more advanced customisation features for the charger while also giving you full information about current operation.

- Live voltage and current readings from the BB output
- The ability to set custom charge profiles
- The ability to adjust the current limit to 100%, 85% or 65% of current rating
- Allows the removal of float feature in lithium profiles
- Desulphation and equalisation settings can be customised and set.



BBR

Alternator to Battery charger

Battery to battery chargers can be used to optimise your alternator production in a similar manner to how the alternator to battery charger systems can - but in a current limiting manner, ensuring you don't overwork your alternator even on a lithium system. Simply ensure your alternator output is connected to your starter battery directly, then install a battery to battery charger to charge the leisure system.

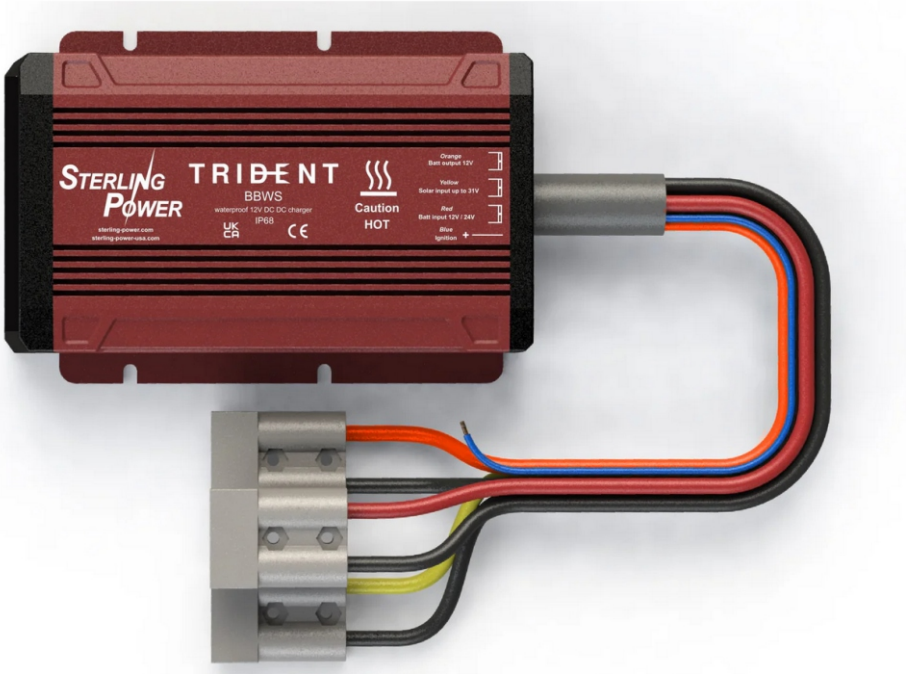
Models

DC V In/Out	Rating (A)	Weight (kg)	L W D	Bidirectional	Reverse Charge	SKU
12/12	26 on Input	0.6	125x130x56	Yes	13.3V at 13A	BB1225
12/12	40 on Input	0.8	160x130x56	Yes	13.3V at 20A	BB1240
12/12	70 on Input	1.0	230x130x56	No (yes 2024)	13.3V at 20A	BB1270
12/12	120 on Input	1.8	270x130x73	Yes	13.3V at 40A	BB12120
12/12	200 on Input	2.2	309x130x96	Yes	13.3V at 60A	BB12200
12/24	120 on Input	1.8	270x130x73	Yes	13.3V at 50A	BB1224120
12/48	120 on Input	1.8	270x130x73	Yes	13.3V at 40A	BB1248120

BBWS SERIES Waterproof (IP68) Battery to Battery charger with Solar input

Key Features

- Up to 97% efficiency
- IP68 rated
- Solar input up to 31VOC
- 12V or 24V input
- Pre-wired with Anderson contacts

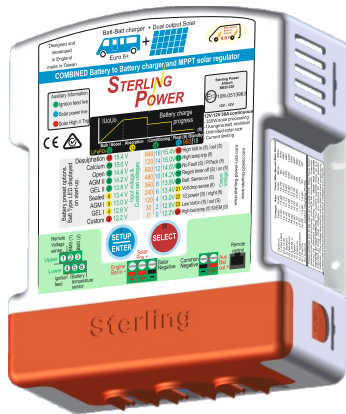


- 12V/24V Input The BBWS can operate from either a 12V or 24V input battery source and can charge a 12V output battery
- Solar MPPT regulation The solar feed into the BBWS is 31VOC rated, harvesting up to 350W or 550W (dependent on model)
- IP68 Waterproofing Waterproof, sealed aluminium construction. Perfect for installation on open boats and perfect for ensuring operation even in the most adverse conditions.
- Battery Profiles Four profiles :: AGM/Gel, Sealed Lead, Lithium, Calcium/Desulphation
- Solar Priority Mode Solar priority mode engages the unit exclusively as a solar regulator.
- Plug-And-Play As the BBWS is pre-wired with sockets, it can be easily and quickly installed or disconnected, pending your needs.

Models	DC V In	Rating (A)	Solar V	Solar W	DC V Out	SKU
	12V/24V	25A	≤31	350W	12V	BBWS1225
	12V/24V	40A	≤31	550W	12V	BBWS1240

ESTABLISHED BB RANGE **Our range of Euro 6 compliant battery to battery chargers and their sibling variants**

- Dynamic Range** This family of battery to battery chargers are suitable for almost any low-voltage directive (12V to 48V range nominal voltage) DC/DC charger need.
- 8 Preset Profiles** Eight preset battery profiles ensure that the battery to battery charger can easily be configured to suit a broad range of battery types and battery manufacturer specifications
- Heavily Customisable** In the unlikely (but possible) case that one of our presets are not suited to your battery bank or application the BB is also incredibly customisable, allowing full control over : Engagement voltage, customisable charge profiles, auto-regen timers, power supply mode being ON or OFF, half power and ignition feed only modes.
- Current Limiting** Our current limiting feature means that you have full understanding of the limits at which your system will operate and ensuring you can plan and operate within pre-defined limits, keeping your alternator, cabling, fuses and all other electronics operating how you expect them to
- Lithium Compatibility** The battery to battery range of chargers are all completely lithium compliant. They are current limiting to stop your lithium batteries from drawing over what your alternator is rated to (or, in some cases, over what the battery itself is rated to), have the option for a live-output mode to wake up a sleeping battery management system, and have pre-set lithium profiles that, on the 2023 release of the BB, also include a low temperature shutdown (OPTIONAL) to protect your batteries from being charged below freezing.
- Models** Known across the automotive and marine market, this battery to battery charger and its predecessor pioneered the battery to battery charger market, an imperative choice for a modern charge system.
- IP22 Non Waterproof**



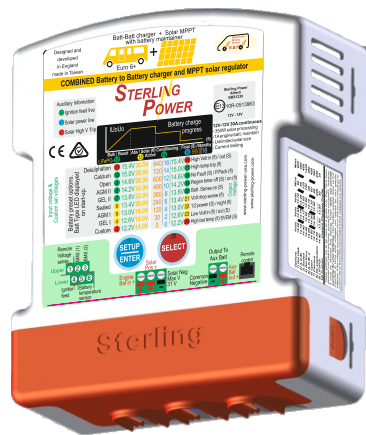
IP22 BB

DC V In/Out	Current IN	Weight (kg)	LxWxD (mm)	SKU
12/12	30A	1.2	190x160x50	BB1230
12/24	30A	1.3	190x160x50	BB122430
12/12	60A	1.4	190x160x70	BB1260
12/24	60A	1.4	190x160x70	BB122470
12/36	60A	1.4	190x160x70	BB123670
12/48	60A	1.4	190x160x70	BB124870
24/24	30A	1.4	190x160x70	BB242435
24/12	30A	1.4	190x160x70	BB241235
24/48	30A	1.4	190x160x70	BB244830

ESTABLISHED BB RANGE Extended Battery to Battery Charger Range

Models The following two models of battery to battery charger are unique, yet share the same user interface that our customers and clients are used to, minimising the need to learn anything new, just choosing the product that is suitable for their needs.

IP22 BB Solar The classic 30A BBS1230 frame and control system with a 350W 31VOC (Volts Open Circuit) solar regulator integrated into function, allowing solar charge to your target bank when the engine is off, and alternator based charge when your engine is on.



IP22 BBS1230

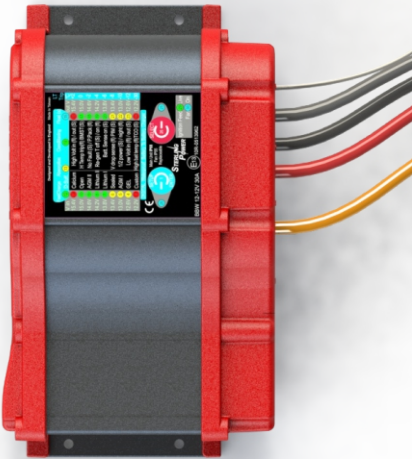
DC V In/Out	Current IN	Weight (kg)	LxWxD (mm)	SKU
12/12	30A	1.2	190x160x50	BBS1230

IP68 Waterproof Aluminium housing, a water resistant fan and our most efficient waterproof DC/DC board yet provide you with the best waterproof service we can provide. Comes sealed with pre-wired 1.5m long cable, and with pre-installed fuses and fuse holders on the cables. Along with all of the features present in the Pro Batt Ultra range of battery to battery chargers.

DC V In/Out	Current IN	Weight (kg)	LxWxD (mm)	SKU
12/12	30A	3.5	128x238x94	BBW1230
12/24	30A	3.5	128x238x94	BBW122430
24/12	15A	3.5	128x238x94	BBW241215
24/24	15A	3.5	128x238x94	BBW242415
☀ 12/12	30A	3.5	168x238x94	BBWS1230
12/36	30A	3.5	128x238x94	BBW123630
12/48	30A	3.5	128x238x94	BBW124830
24/48	15A	3.5	128x238x94	BBW244815
⚡ 12/12	30A	3.5	128x238x94	BBWI1230

☀ BBWS - Solar Model
Solar model has MC4 male / female connectors
Max solar VOC - 32VOC

⚡ BBWI - Isolated Output Model



IP68 BBW1230

Remotes All extended range battery to battery chargers have the option to be fitted with remote controls. The remote controls for each range is as follows.

BBURC: Suitable for all BB and BBS variants.

VULCAN 24V+48V 5500W Inverter/Charger/Solar Regulator. Parallel capable.

Key Features

- Parallel capability
- 5500W Inverter (DC-AC)
- 60A AC-DC charger
- PV Input (120-500PVDC)
- PV Charge, up to 60A
- Total charge limit, 80A combined PV/AC



Incredible efficiency

With an efficiency of 93%, there is no better way of harnessing 240VAC from a DC battery bank.

Pure Sine Wave

The wave form output is pure sine, ensuring your AC appliances will run exactly as you expect it should.

High power rating

Continuously rated at 5500W (KW rather than KVA. KVA rated to 7KVA), overload capabilities of 11KVA

Powerful charger

The DC charging current is up to 60A at 48V or 100A at 24V from the AC input lines or the PV input lines. The maximum cumulative charge current (with both PV and AC running) is 80A at 48V and 120A at 24V.

4 Operating Modes:

GRID PRIORITY - When grid/mains is applied, Vulcan uses grid to run appliances alongside solar

SOLAR PRIORITY - Solar is the primary provider to power loads, battery is secondary, mains tertiary.

BATTERY PRIORITY - Battery provides power as primary source, with mains assisting when battery is low

GRID+SOLAR PRIORITY - Only solar and grid provide power to loads. Battery unused.

Customisability

Battery Profile AGM, GEL, FLOODED and Lithium presets, with CUSTOM capabilities.

Charge current adjustment - Adjust your charge limit from 80A down to 10A, in 10A increments.

Specific AC output selection - AC output range of 220-240VAC, 50 or 60HZ.

Discharge current limit - If your battery, typical on lithium systems, has a maximum amount that can be drawn out of the battery bank (discharge C limit), this can be set on the Vulcan inverter itself.

High + Low lithium battery State of Charge disconnect

Low voltage alarms + Shutdowns

Parallel Capable

Multiple Vulcans can be paralleled to combine their capabilities. For example, two Vulcans would give you the capability of 120A AC/DC charge and 11KW DC/AC inverted output.

Communication protocols

USB | RS232 | RS485 | WiFi | CAN

Dimensions

425mm x 330mm x 117mm. 10.6kg

VULCAN-T 48V 5500W Inverter/Charger/Solar Regulator. Parallel and Three Phase (415VAC) capable

Key Features

Series/Three Phase Capable

Parallel capable

48V/5500W inverter

60A AC/DC Charger

PV Input 120-500VDC

Total charge limit, 80A
combined PV/AC

120A Charge limit for 24V
model combined PV/AC

Retains all features from the
previous page



The Vulcan-T (VT) retains all the features from the previous page (V) but has the additional capability of being ran in three phase, enabling far broader user capabilities.

3 Phase Capable

Three VT units are required for three phase use.

Display system

Menu settings adjustable on display
Toggle between power displays
General user information display



Shows AC input and output voltage
Displays flow of power from solar
Displays flow of power to loads

Dimensions

503mm x 302mm x 120mm

Models

DC Voltage	Inverter rating	DC Charge Limit	3-Phase Capable	PV Input	Product Code
24V	5500W	120A (24V)	N	120-500V	V245500
48V	5500W	80A (48V)	N	120-500V	V485500
48V	5500W	80A (48V)	Y	120-500V	VT485500



**STERLING
POWER**

NEW INVERTER RANGE Our newest Pure Sine and Quasi Sine Inverters (240VAC OUT)

Key Features

PS Series

High efficiency (87.5%)

High quality construction

Higher maintained VAC output

Expanded input range (up to 48V)

Modern Design

A clear red and white finish allows quick identification of these new units against our existing inverter ranges. Their modern, angled finish also ensures that (in the plug version-) you can still plug your sockets in without the cable pressing against the surface beneath!

LCD Display and Remote

Clear LCD display and a high clarity remote control offers (remote not included at 48V) full control and understanding of what is going on with your unit without any confusion.

Full performance

Many inverters see their output capabilities suffer as the input voltage sags. The PS and QS series of inverters strive to give you full output performance all the way down to our shut-off voltage (10.5V at 12V)

Higher Loading Voltage

Many inverters give your AC equipment the bare minimum voltage they need to operate. The PS and QS series of inverters maintain a higher 240VAC output throughout the full load-time, helping your equipment run to their greatest capabilities.

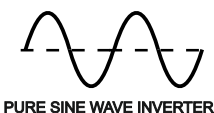
RCD and Socket Models

Twin Socket models and RCD models both available

Pure Sine

Pure sine output, ensuring that your 240VAC equipment, regardless of its sine-wave form requirements, will run exactly as you expect it to.

Pure Sine Variants



PURE SINE WAVE INVERTER

SKU	DC (V)	Power (W)	RCD	DC Current	LxWxD (mm)
PS121500	12	1500	N	~150A	454x262x113
PS122000	12	2000	N	~200A	454x262x113
PS123000	12	3000	N	~300A	565x262x113
PS241500	24	1500	N	~70A	454x262x113
PS242000	24	2000	N	~100A	454x262x113
PS243000	24	3000	N	~150A	565x262x113
PS482000	48	2000	N	~50A	454x262x113
PSRCD121500	12	1500	Y	~150A	454x262x113
PSRCD122000	12	2000	Y	~200A	454x262x113
PSRCD123000	12	3000	Y	~300A	650x262x113
PSRCD124000	12	4000	Y	~400A	650x262x113
PSRCD242000	24	2000	Y	~100A	454x262x113
PSRCD244000	24	4000	Y	~200A	650x262x113
PSRCD484000	48	4000	Y	~100A	650x262x113

PSRC

Remote Control for PS Series

Quasi Sine

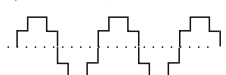
We also provide Quasi Sine variants of these inverters, with all the benefits of the above (apart from the pure sine wave!).

Quasi Sine Notes

Please be aware that sensitive electronics are unlikely to run on a Quasi Sine Wave. Not all appliances will be suitable for or operate as expected on Quasi Sine. If in doubt, please consider a Pure Sine item. We do not have lists of items that work or do not work on a Quasi Sine Wave.

Quasi Sine Models

QUASI SINE WAVE INVERTER



SKU	Waveform	DC (V)	Power (W)	RCD	DC Current	LxWxD (mm)
QS122000	Quasi	12	2000	N	~200A	430x430x113
QS123000	Quasi	12	3000	N	~300A	500x430x113
QS242000	Quasi	24	2000	N	~100A	430x430x113
QS243000	Quasi	24	3000	N	~150A	500x430x113

QSRC

Remote Control for QS Series



PCS COMBI Sterling's New Combi Chassis

PCS Series

The ubiquitous Sterling Combi has had a facelift to fall in line with the future brand identity. With a new ruby colouring the PCS series of inverter/chargers continues to fulfil industrial grade power requirements.

12V/24V

The PCS series of combined inverter/chargers have models that can operate at the 12V or 24V nominal regions, giving broader application than some of the competition.

Resilient Inverter

The industrial grade (and weighty) transformer of the PCS combi makes it a very reliable, resistant and repairable unit, offering continuous pure sine operation at it's ratings (2500W and 3500W output, 240V).

AC Charger

The PCS offers a competitively rated integrated AC/DC charger (240V), offering a 70A/12V (35A at 24V) charger on the 2500W variant and a 100A/12V (50A/24V) charger on the 3500W variant.

Auto-Crossover Switch

The PCS has an integrated auto-crossover switch, meaning that while it is plugged into an AC shore source it will be charging your batteries from the AC input, and also providing to your AC loads from the shore power source. When the AC source is disconnected the PCS will automatically switch to operating from the DC power source... your batteries.

Warranty

2 Years

DC V	Power W	SKU
12	2500	PCS122500
12	3500	PCS123500
24	2500	PCS242500
24	2500	PCS243500

New Combi Chassis



High Voltage Protection Device (recommended with our Combi)

Sterling's High Voltage Protection Device (HVPD) is designed to protect any 230V AC supply such as: Generators / inverters / mains from incorrect voltage destruction. At some marinas / parks the mains supply voltage is wrong and this can result in the governor speed control / regulator / voltage controller failing (sticking). This can result in a dangerous situation for the operator and can destroy AC equipment. The HVPD is designed to prevent such destructions. The HVPD is IP66 waterproof rated.

Suitable for generators and inverters of **any size** with indirect connection.

Automatically sends signal to shut down the actual generator or isolate the inverter, if required.

Please note, this is a high voltage safety trip and not an in line voltage conditioner.

Reacts within 0.12 seconds to that set voltage.

The unit makes no attempt to smooth or fix the high voltage. It is designed to assume a catastrophic failure and switch everything it can off as fast as possible. This reduces / prevents the ensuing damage from that high voltage failure.

Unit can be adjusted to 270 / 280 / 300V AC. Detects a high voltage which can be adjusted to your requirements depending on the generator being used and its standard reaction to normal on / off loading.

Dimensions (L x W x D)	SKU
155mm x 170mm x 118mm	HVPD



INVERTERS Sterling's Pure Sine Inverters

Pure Sine Inverters

Pure sine wave inverters perfectly replicate the power as it would come from your shore power access, allowing full use of even the most sensitive electronic devices.

12V/24V

Sterling offer a range of pure sine wave inverters, in both 12V and 24V inputs.

Variants

230V Pure Sine Wave 50 Hz AC inverters 12V DC and 24V DC 200W - 2200W					
Voltage	Power	Weight	Size L x W x Dmm	Cables	Code
12V	200W	1.4Kg	250x190x85	1m Cig Plug	SIB12200
12V	300W	1.4Kg	250x190x85	1m DC 8mm ring	SIB12300
12V	600W	2.0Kg	300x190x85	1m DC 8mm ring	SIB12600
12V	1000W	2.2Kg	370x190x85	8mm connection	SIB121000
12V	1600W	3.6Kg	370x190x85	8mm connection	SIB121600
12V	2200W	4.5Kg	400x220x85	8mm connection	SIB122200
24V	200W	1.4Kg	210x190x85	1m Cig Plug	SIB24200
24V	300W	1.4Kg	210x190x85	1m DC 8mm ring	SIB24300
24V	600W	2.0Kg	300x190x85	1m DC 8mm ring	SIB24600
24V	1000W	2.2Kg	400x190x85	8mm connection	SIB241000
24V	1600W	3.6Kg	400x190x85	8mm connection	SIB241600
24V	2200W	4.5Kg	460x220x85	8mm connection	SIB242200
Option 2 Pre-Fitted with RCD and with 1 meter AC cable					
12V	300W	1.5Kg	250x190x85	6mm connection	SIBR12300
12V	600W	1.8Kg	300x190x85	6mm connection	SIBR12600
12V	1000W	2.0Kg	370x190x85	8mm connection	SIBR121000
12V	1600W	3.6Kg	370x190x85	8mm connection	SIBR121600
12V	2200W	4.5Kg	400x220x85	8mm connection	SIBR122200
24V	300W	1.5Kg	250x190x85	6mm connection	SIBR24300
24V	600W	1.8Kg	300x190x85	6mm connection	SIBR24600
24V	1000W	2.0Kg	400x190x85	8mm connection	SIBR241000
24V	1600W	3.6Kg	400x190x85	8mm connection	SIBR241600
24V	2200W	4.5Kg	460x220x85	8mm connection	SIBR242200
230V Pure Sine Wave 50 Hz AC inverters w/ RCD 12V DC and 24V DC 3000W - 5000W					
12V	3000W	6.2Kg	450x256x185	No Cables	SIB123000
12V	4000W	7.0Kg	550x256x185	No Cables	SIB124000
12V	5000W	7.6Kg	550x256x185	No Cables	SIB125000
24V	3000W	6.2Kg	450x256x185	No Cables	SIB243000
24V	4000W	7.0Kg	550x256x185	No Cables	SIB244000
24V	5000W	7.6Kg	550x256x185	No Cables	SIB245000
110V / 50Hz model 1600W with Yellow Socket					
12V	1600W	3.6Kg	400x190x85	8mm connection	ASIB121600
24V	1600W	3.6Kg	400x190x85	8mm connection	ASIB241600
Remote control (fits all models)			90x60x20	5 metre	SWR

Product Images



Fig 16.1
Twin Socket (Euro Schuko + UK mains)
USB 2A/5V



Fig 16.2
Pre-wired RCD w/ 1m AC cable
USB 2A/5V



Fig 16.3
110V/50Hz Yellow Socket for site use
USB 2A/5V



Fig 16.4
SWR Remote Control
5 meters of cable

INVERTERS Sterling's Quasi Sine Inverters

Pure Sine Inverters

Quasi sine wave inverters produce an electronic sine wave that is more crude than a pure sine wave, and as such generally can not power more sensitive electronics. The benefit of a quasi sine wave inverter, however, is generally the price or compactness.

12V/24V

Sterling offer a range of quasi sine wave inverters, in both 12V and 24V inputs.

Variants

230V 50Hz 12V DC Quasi Sine Wave Inverters					
Socket Type	DC (V)	Power (W)	Size LxWxD mm	Weight (Kg)	Code
Universal	12V	100W	145L x 65 dia.	0.2	I12100
Universal	12V	150W	145L x 100 dia.	0.3	I12150
British / Euro	12V	150W	145L x 100 dia.	0.3	I12150CT
Universal	12V	200W	145L x 65 dia.	0.3	I12170T
British / Euro	12V	350W	150 x 150 x 65	1.0	I12350
British / Euro	12V	600W	230 x 150 x 65	1.3	I12600
British / Euro	12V	800W	270 x 150 x 65	1.8	I12800
1000-2700W Inc Remote control and 5 metres of cable					
British / Euro	12V	1000W	240 x 250 x 100	2.0	I121000
British / Euro	12V	1800W	300 x 250 x 100	4.0	I121800
British / Euro	12V	2700W	370 x 250 x 100	5.0	I122700
British / Euro	12V	4000W	700 x 250 x 250	10.0	I124000
British / Euro	12V	5000W	700 x 250 x 250	10.0	I125000

230V 50Hz 24V DC Quasi Sine Wave Inverters					
Socket Type	DC (V)	Power (W)	Size LxWxD mm	Weight (Kg)	Code
Universal	24V	100W	145L x 65 dia.	0.2	I24100
Universal	24V	150W	145L x 100 dia.	0.3	I24150
British / Euro	24V	150W	145L x 100 dia.	0.3	I24150CT
Universal	24V	200W	145L x 65 dia.	0.3	I24170T
British / Euro	24V	350W	150 x 150 x 65	1.0	I24350
British / Euro	24V	600W	230 x 150 x 65	1.3	I24600
British / Euro	24V	800W	270 x 150 x 65	1.8	I24800
1000-2700W Inc Remote control and 5 metres of cable					
British / Euro	24V	1000W	240 x 250 x 100	2.0	I241000
British / Euro	24V	1800W	300 x 250 x 100	4.0	I241800
British / Euro	24V	2700W	370 x 250 x 100	5.0	I242700
British / Euro	24V	4000W	700 x 250 x 250	10.0	I244000
British / Euro	24V	5000W	700 x 250 x 250	10.0	I245000

110V / 50Hz yellow sockets / remote control / engine interlock					
Socket Type	DC (V)	Power (W)	Size LxWxD mm	Weight (Kg)	Code
Yellow 16A	12V	1800W	310 x 250 x 100	2	AI121800
Yellow 2x16A	12V	2500W	420 x 250 x 250	4	AI122500
Yellow 16A	24V	1800W	310 x 250 x 100	2	AI241800
Yellow 2x16A	24V	2500W	420 x 250 x 250	4	AI242500

Product Images



Fig 17.1
100W, 150W, 200W
Coke can variant



Fig 17.2
350W, 600W, 800W

SOLAR Solar Regulators, MPPT and PWM

Solar Regulators

In order to continue to compete in the power distribution market, Sterling has expanded into the solar market and can now offer very competitive solar regulators, which is the beginning of our solar integration range. We offer two regulator technologies at present, **Pulse Wave Modulation (PWM)** and **Maximum Power Point Tracking (MPPT)**

Solar regulators are vital for when charging batteries from a solar source. Solar panels typically operate at far higher voltages than would be healthy for a battery and a solar regulator provides the intelligent control to not only make it safe to charge batteries from, but also to charge them intelligently and with reference to your batteries preferred charge curve and profile.

PWM

PWM technology is size and cost efficient and yet still very effective at harvesting from solar. This is predominantly aimed towards installs with smaller arrays or for which space is a premium and which does not need the more advanced output and features of the MPPT range.

MPPT

MPPT technology is larger and at a comparable premium but does offer a superior solar harvest, providing you with a maintained and maximised output even with wildly varying solar inputs and can offer you far increased adaptability and monitoring due to its integrated WiFi connectivity.

User Interface

The app and WiFi allow output customisation and monitoring from even remote positions. It provides you with the voltage, harvest and output and is very easy to establish and integrate. Only the MPPTs have integrated WiFi

12V, 24V, 36V, 48V Autoselect

The PWM10 and MPPT30 can output to 12V or 24V battery banks and will autoselect depending on what voltage it registers at your batteries. The MPPT50 can output to 12V, 24V, 36V or 48V battery banks.

Twin Output Access

All Sterling regulators also integrate a load output that can be used to provide power to a different source when full, either providing to a known load or can be used to charge a secondary battery bank or trigger a signal of sorts.

Models

Model	Dimensions (mm)	Weight	Rating	Output Range	VOC Limit	Max Harvest	WiFi
PWM10	125 x 81 x 30	160g	10A	12V / 24V	50V IN	300W	No
MPPT30	240 x 178 x 63	1.5kg	30A	12V / 24V	100V IN	800W	Yes
MPPT50	240 x 178 x 73	2.3kg	50A	12V/24V/36V/48V	135V IN	1200W	Yes

Product Images



PWM10



MPPT30 and MPPT50 frame



App and WiFi display



LCD display

SOLAR Solar Accessories

MC-4 T Style split connectors
Comes with 1x male, 1x female
2/3/4/5 splitter/combiners
Do not exceed 30A

Sterling Part Number
S2GD 2-1 Dual pack
S3GD 3-1 Dual pack
S4GD 4-1 Dual pack
S5GD 5-1 Dual pack



MC-4 Y style flexible connectors
1x male, 1x female
Do not exceed 30A

Sterling Part Number
S2BD 2-1 Dual pack
S3BD 3-1 Dual pack
S4BD 4-1 Dual pack



MC-4 Connector With Fuse
Sterling Part Number
SF10 Male MC4 10A
SF20 Male MC4 20A
1 x Male MC4



MC-4 Diode Male to Female
Sterling Part Number
SD10 MtF MC4 Diode 10A
SD20 MtF MC4 Diode 20A
1 x Male to Female MC-4 diode



MC-4 Through bulkhead
Dual pack
Sterling Part Number
STB
1 x Male MC4 through bulkhead
1 x Female MC4 through bulkhead



MC-4 6mm2 Solar
Regulator Connector M/F
Sterling Part Number
SRC6
1x MC-4 6mm2 Solar Regulator
Connector M/F 15cm



MC-4 M & F Through roof
waterproof pod 12 mm holes
Sterling Part Number
SP Pod+gasket only
suitable for MC-4 or
conventional gland use
Connectors not included



8x Self adhesive cable tie
holder for roof or wall cable
installations.
Sterling Part Number
SAT



MC-4 Connector Specifications

Rated current: 30A
Rated Voltage: 1000VDC
Suitable cable: 2.5 & 4 & 6mm2
Waterproof IP67
Contact resistance 0.2mm Ohms
Contact material: Copper Tin plated

Pin Dia 4.0mm dia
Flame class: UL94-VO
Safety class:11
Insulation material: PPO
Connecting system: Crimping
Temperature rating -40 to 90°C

SOLAR Solar Installation Kit SKIT + Solar Cable

Solar Installation Kit SKIT

Solar can be scary to some installers as it feels like a whole new world of power which may need new tools that don't fit into the installers existing carrycase. The Sterling Solar Kit overcomes these barriers.

Zip sealed and portable

The SKIT provides all the stripping, cutting and crimping tools and screwdrivers you may need for install in a neatly packaged zip-locked handy pack.

Ergonomic Design

The tool range have been designed all for ease of install and user comfort. Consistently high crimping quality and accuracy is ensured thanks to the crimping moulds, locking mechanisms and comfortable grips.

Cable applications

Suitable for MC-3, MC-4 and Tyco solar connectors, or suitable for any crimping and stripping installs on cable ranges from 26AWG to 10AWG.

Specifications

Construct Material: Carbon Steel
Type: Combination Pliers
Model Number: A-2546B
Application: MC3/MC4/Tyco Solar Connectors
Purpose: Crimping/Cutting/Stripping MC3/MC4 wires of 2.5mm, 4mm, 6mm (AWG 14/12/10)
Cutting Range: 30mm MAX
Stripping Range: 0.9-6.0mm
Weight: 2.2kg
Crimping Range MC3/MC4: 2.5/4/6mm² (AWG 14/12/10)
Crimping Range Tyco: 4/6mm² (AWG 12/10)
Pack Size: 15*32*5CM
Manual: English



Solar Kit (Opened)

Tool set includes

1. A-2546B PV MC4 Crimping Tool for crimping MC4 connectors. Crimping range: 2.5, 4, 6.0mm²
2. LS-700E cable stripper for stripping cables 1.5mm², 2.5mm², 4mm², 6mm²
3. LS-206 cable cutter for cutting cables 35mm² max.
4. LSD-2546S MC4 Spanner 1 set
5. Straight screwdriver 1 piece and Cross screwdriver 1 piece
6. MC4 locator
7. 1 allen key
8. Zippered Carrying Bag

MC-4 Pre-Made Cable

Available from 0.5M to 10M in length, in either 4mm² or 6mm² cross sections. Pre-fitted with TUV/UL approved male and female MC-4 connectors.

Pre-bagged

Available pre-bagged with barcodes, ideal for retail or resale.

Sterling Bespoke

All cables ordered from us are made by us. Bespoke order options available. This ensures that everything is Sterling quality.

Premium cable

Our tin-coated, double insulated copper cable is corrosion resistant, safe and with minimal losses.

Cable Product Codes and Photos

TUV/UL APPROVED

	4mm ²	6mm ²
0.5mtr	SE05M4	SE05M6
1mtr	SE1M4	SE1M6
2mtr	SE2M4	SE2M6
3mtr	SE3M4	SE3M6
4mtr	SE4M4	SE4M6
5mtr	SE5M4	SE5M6
6mtr	SE6M4	SE6M6
7mtr	SE7M4	SE7M6
8mtr	SE8M4	SE8M6
9mtr	SE9M4	SE9M6
10mtr	SE10M4	SE10M6



MC-4 Cable



Cable, double insulated, tin coated copper

ALT-REGULATORS Alternator Regulators, PDARW and AR12W

Digital Control	All current Sterling alternator regulators are digitally controlled units with soft-start engagement. This digital control means that complex calculations can be processed quickly and simply. Soft-start protects against the alternator struggling to engage or slipping.
Charge Profiles	Multiple charging profiles with dynamic and intelligent battery charging, ensuring battery longevity, through merit of being charged correctly, and life-time boosted battery performance. Includes a desulphation setting for open lead batteries.
Operation	Can be used in addition to or in place of the original alternator regulator, good practice to run both.
Alternator Suitability	Suitable for all known alternators thus far, with minimal modifications.
System Safe	Self monitoring and system monitoring unit, protecting your alternator charge system from battery over-temperature (and adjusting the output voltage depending on battery temperature, 0.018V+/- 20°C), alternator over temperature and high battery voltage. This does not mean we will cool your alternator for you, simply regulate it when it is getting hot.
Failsafe	In the event of a unit failure, alternator will default to the pre-existing regulator (if still fitted).
Charge Performance	Optimises your alternator performance and forces operation in line with your chosen battery profile.
Waterproof	Built to an ingress protection rating of IP66
PDARW Spec	The PDARW can function with a remote control, allowing further control and understanding of your system and features an additional set of temperature sensors for further safety and intelligent function. The PDARW can be used on 12V or 24V alternators and for use on alternators up to 600A rating. Positive Field Control Limit = 12A Field Current, Negative Field Control = 18A Field Current
AR12W Spec	The AR12W does not have the options for additional remote control or temperature sensors and is suitable for lower powered alternators, but also comes at a lower overall cost so is suitable for when you do not need the additional features. It is only suitable for 12V alternators up to about 300A rating. Positive Field Control Limit = 8A Field Current, Negative Field Control = 13A Field Current

Further Information

	AR12W	PDARW
Digital software control with slow start	●	●
Dynamic Progressive battery charging	●	●
Can be used in parallel (recommended) or stand alone regulator	●	●
Programmable for different battery types	●	●
Single unit fits 99% of alternators and all battery types	●	●
Charges to 4 step progressive constant current charging curves	●	●
Self diagnosing fault system	●	●
Totally isolates the advanced regulator in fault condition	●	●
Information 6 LED display one tri coloured	●	
Information 8 LED display (B only)	●	
Battery Temperature sensing	●	●
High battery temp trip	●	●
High battery voltage trip	●	●
High alternator voltage trip	●	●
De-sulphation ability on open lead acid batteries	●	●
In event of failure auto return to standard alternator regulator	●	●
Can be used with or without the temperature sensor	●	●
Monitors for excessive neg voltage drop and trips	●	●
Protects batteries if temperature sensor open circuited	●	●
Protects batteries if split charge relay/diode fails open	●	●
Protects batteries if advanced reg fails closed	●	●
Protects batteries if battery sense wire falls off or broken	●	●
10 LED display		●
13 LED display		●
12 or 24V operation, selectable		●
Remote control option		●
Alternator temperature sensor and boost disengage		●
Unit thermostatically controlled fan cooling for max performance		●
IP 66 waterproof & ignition protected for W options	●	●



AR12W



PDARW

Model	Weight	Voltages	Size/mm	Notes
AR12W	0.25kg	12V	120 x 80 x 45	Comes with 1 temp sensor
PDARW	0.58kg	12/24V	160 x 96 x 55	Comes with 2 temp sensors
PDARR	0.25kg	///	170 x 90 x 40	Remote for PDARW

ALT TO BAT CHARGERS Alternator to Battery Chargers

Alternator Regulator OR Alternator to Battery Charger?

Not all installs require the complicated wiring (or are even allowed to due to insurance reasons) of an Alternator Regulator to optimise your charge. In situations where you want to improve what's coming from your alternator but don't want to use the Alt-Reg, the Alternator to Battery charger is perfect, offering up to 5 times the performance of a stand-alone regulator system. The AB puts a load on its input (from the alternator) so the alternator is maximising what it is providing, and amplifies what it receives to the output, providing a 4 stage charge profile that meets the users requirements.

Main Output

The main output has 9 selectable preset profiles, allowing maintenance and correct battery voltages for a broad variety of battery types.

Starter Output

The starter output receives a maintenance voltage equivalent to what the alternator stud is receiving. Most starter batteries do not require advanced charge profiles.

Simple Install

As this unit does not require interference or modification with the alternator, you save on installation time (and costs...) and bypasses any issues with engine management systems or warranty problems.

Multiple Alt Control

Multiple alternators can be joined to the same alternator input stud (we can't guarantee we'll work them all the exact same, however) meaning it can be used to optimise multiple alternator sources at once. Do not exceed the overall AB rating.

Remote Voltage Sense

Remote voltage sense allows the AB (and therein your electrical system) to adjust its output to overcome any voltage drop down cable. It detects what it itself is outputting and then detects what is arriving actually at your battery, adjusting its own output until you're getting the charge you actually want to be getting.

Ignition Feed

Some alternators require a voltage on the alternator to engage, the ignition connection on the AB allows our device to overcome this limitation in the event that one of these alternators is in use.

Remotes

We have two different remotes for the AB series, both can be surface, recess or flush mounted:
The ABNRC is for the AB1280, AB12130, AB12300, AB12400, AB2480 AND AB24200.
The ABRC is for the AB12160, AB12210 and AB24100

ABNRC

The ABNRC displays Voltages, Temperatures, Charge State and Temperature Sense readings

ABRC

The ABRC displays Voltages, Current, Temperatures, Charge State and Temperature Sense readings. The ABRC comes with 2x 200A shunts for accurate current readings.

Models and Images

Model	Current Rating	Weight	Voltage	Size/mm
AB1280	80A	2.5kg	12V	270 x 180 x 80
AB12130	130A	2.5kg	12V	270 x 180 x 80
AB12300	300A	5kg	12V	370 x 288 x 70
AB12400	400A	5.1kg	12V	370 x 288 x 70
AB2480	80A	2.5kg	24V	270 x 180 x 80
AB24200	200A	5.2kg	24V	370 x 288 x 70
ABNRC	//	//	//	//
AB12160	160A	3.5kg	12V	250 x 280 x 70
AB12210	210A	3.5kg	12V	250 x 280 x 70
AB24100	100A	3.5kg	24V	250 x 280 x 70
ABRC	//	//	//	//



AB1280



AB12300

RELAYS Sterling Pro Split Relay Range

- Pro Split Relay (PSR)** The Pro Split R (PSR) is a 0.0V drop alternator splitting system, the direct successor and improvement over the old diode based splitting systems which induced large voltage drops across them. The newer and more intelligent PSR selects a battery bank and isolates the other battery banks to prevent them from dragging down the alternator performance, gradually bringing on battery banks until they are all charged together.
- Intelligent Distribution** All batteries are provided charge in an intelligent manner and isolated as needs dictate, preventing back-feed under high load conditions. The PSR can also isolate specific outputs (or the input) if it is detecting notably high or low voltages that the unit decides are concerning, providing additional protection against battery boiling.
- Sense Stud** The sense stud on the PSR allows seamless integration of alternator regulator sense cables, optimising the charge splitting performance even across long runs.
- Fail-Safe** In the event of unit failure or shutdown, the engine start battery and alternator studs remain connected, ensuring that even in the circumstance that the unit fails, your vehicle can still operate.
- Protections** If your alternator fails and provides 16V to the input the PSR will isolate your alternator from your battery banks, and vice versa, ensuring full system protection.
- Efficient Charge** Thanks to the 0V loss across the PSR we can offer a far faster charge rate than you would expect to see in older splitting systems. Once the starter battery is full (our priority to make sure your system runs when you need it to..!) we direct your alternators focus entirely to the house bank, optimising and prioritising your charge rates.
- Euro-6** Not suitable for modern Euro-6 vehicles, battery to battery chargers are required for Euro-6 vehicles.

Models

Model	Current Rating	Outputs	Weight	Voltage	Size/mm
PSR122	120A	2	0.6kg	12V	150 x 80 x 120
PSR182	180A	2	0.7kg	12V	150 x 80 x 140
PSR252	250A	2	0.9kg	12V	150 x 80 x 155
PSR123	120A	3	0.9kg	12V	150 x 80 x 130
PSR183	180A	3	1kg	12V	150 x 80 x 150
PSR253	250A	3	1.3kg	12V	150 x 80 x 180
PSRT134	130A x2	4	1.8kg	12V x 2	150 x 80 x 295
PSR63	60A	2	1.8kg	24V	150 x 80 x 120
PSR102	100A	2	0.6kg	24V	150 x 80 x 140
PSR152	150A	2	0.7kg	24V	150 x 80 x 165
PSR242	240A	2	1.2kg	24V	150 x 80 x 250
PSR63	60A	3	0.7kg	24V	150 x 80 x 150
PSR103	100A	3	1kg	24V	150 x 80 x 175
PSR153	150A	3	1.3kg	24V	150 x 80 x 220
PSRT84	80A x 2	4	1.8kg	24V x 2	150 x 80 x 295



PSR182



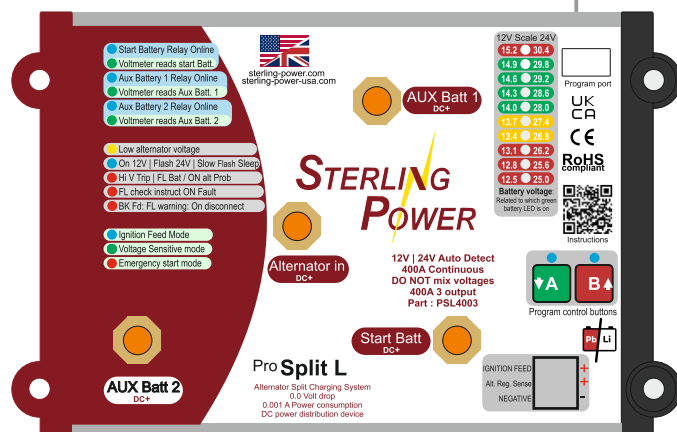
PSRT (TWIN)

RELAYS Sterling Pro Split Latching Range

Pro Split Latch (PSL)	The Pro Split L, like it's predecessor, is a 0.0V loss alternator splitting system that succeeds the PSR by being more intelligent and utilising 0.0A demand latching relays, optimising your charge efficiency even further.
Latching Relays	Conventional relays can use up to 1A continuously to remain closed, obviously being inefficient on some lower powered systems like solar. Latching relays consume an amp for a fraction of a second before staying shut at 0A demand.
12/24V Auto Sense	Suitable for both 12V and 24V systems, auto-selecting between the two upon install.
Charge Splitter	The PSL will distribute whatever input is placed onto the alternator in terminal among the multiple output terminals without any noticeable loss, allowing fuller and more intelligent charge distribution.
Voltmeter	The PSL has an integrated voltmeter for DC voltage on each output.
Engagement Settings	Operation can be engaged through either voltage sensing on the input or via an ignition feed going live. The engagement voltage is customisable by the user, for configuration in unique circumstances.
Protections	If there is a defective battery charger or charge source on one battery bank trying to backfeed into a different battery source, the unit would disconnect that battery bank to protect others.
Charge Distribution	Distributes charge intelligently to each battery bank one at a time, depending on which bank needs it the most.
Alternator protection	If the alternator were to fail and output an excess of 16/32V, the PSL would protect all attached battery banks from being connected to the alternator and being damaged.
Euro-6	Still not suitable for Euro-6 unless operating in conjunction with a battery to battery charger acting as the input.

Models

Model	Current Rating	Outputs	Weight	Voltage	Size/mm
PSL902	90A	2	0.6kg	12V/24V	150 x 80 x 120
PSL1802	180A	2	0.7kg	12V/24V	150 x 80 x 140
PSL2702	270A	2	0.9kg	12V/24V	150 x 80 x 155
PSL903	90A	3	0.9kg	12V/24V	150 x 80 x 120
PSL1803	180A	3	1.1kg	12V/24V	150 x 80 x 140
PSL2703	270A	3	1.3kg	12V/24V	150 x 80 x 155
PSLT1804	180A x2	4	2.0kg	12V/24V	150 x 80 x 295



Pro Split Latching

RELAYS **Current Limiting Voltage Sensitive Relays**

CVSR Range	The Current Limiting Voltage Sensitive Relay range of products (CVSR) offer incredible versatility and resilience in installations. They can operate as bidirectional 0.0V loss relays, but also offer the ability to control excessive loads that would destroy or damage conventional relays.
Current Surge Limiter	Under high loads, such as large inverters, AC units, engines, the load drawn down DC cabling would exceed the cable and relay rating and may, through current surge, cause relays to weld shut or simply shatter. The CVSR range have PTC fuses which allow this high load to abate or dissipate before opening the relay, thus protecting the relay from damage.
Engagement Settings	Customisable engagements allow the user to require a manual override, or to have full customisation control over the voltages at which the unit engages and disengages. The default for engagement is set to 13.3V and a disengagement at 13.0V.
High efficiency	Extremely low losses, 0.01V drop across the relay and a quiescent current of approximately 1mA.
Ingress Rating	Built to an ingress protection rating of IP66.
Protections	High overload surge rating and protection, back EMF spark arrester, emergency signal forced engage/disengage, high battery voltage trip, SAEJ1171 ignition protected, 5 alarms and safety trips, primary battery discharge protection, anti-relay arc protection, reverse polarity protection.
Voltages	12V/24V auto-select, ensuring broad range application.

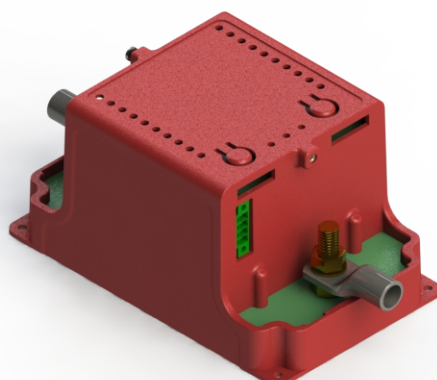
Model	Current Rating	Weight	Voltage	Size/mm
CVSR70	70A	0.1kg	12V/24V	140 x 120 x 40
CVSR140	140A	0.2kg	12V/24V	140 x 180 x 40
CVSR210	210A	0.25kg	12V/24V	140 x 210 x 40
CVSR280	280A	0.25kg	12V/24V	140 x 240 x 40



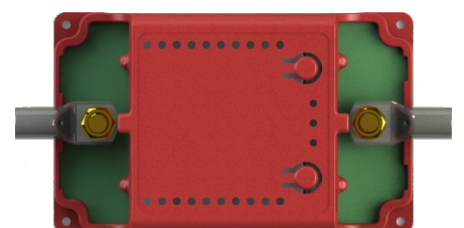
CVSR70

Battery Protect Device DCD	The Sterling Battery Protect Device (DCD) provides both high and low voltage protection to either lead acid or lithium batteries. The DCD is a device that essentially prevents of discharge of a battery to prolong its lifespan. The device offers instant isolation against voltage related battery problems. There are multiple preset on/off voltages, so you can set the DCD to protect the battery down to different states of charge. There are algorithms built into the software that prevent yoyo on/off clicking of the relay and biases the protection and charging of the battery of the discharge. The DCD monitors the rate of change of voltage and makes decisions based
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The Battery Protect internals are rated up to 300A with smaller models, and more to be developed.



more up to date
information found here:



RELAYS Voltage Sensitive and Ignition Fed Relays

Voltage Sensitive Relays	Sterling has a broad range of simpler relays, too, that can function off of either voltage sensing or off of ignition feed signals.
Low loss	All Sterling relays have a 0.0V drop and incredibly low quiescent current, allowing for negligible loss across the relay.
Engagement Voltages	The VSRs, VSRBs and VSRA's all have automatic voltage activation, set to 13.3V engage and 13.0V disengage by default. The VSRs and VSRBs are customisable regarding their voltage activation threshold, whereas the VSRA cannot be adjusted.
Auto-Sense	The VSRB and VSR are both auto-voltage sensing, adjusting between 12V and 24V depending on the system. The VSRA does not have any auto-adjustment or customisable features.
Ignition Control	All VSRs also have ignition/signal override options for further flexibility.
IP Rating	The VSR is built to IP66 rating and potted. The VSRB and VSRA are entirely waterproof and ingressproof. To adjust the VSRB you must use a magnet.
LED Displays	The VSR has a 6LED information display, the VSRB has a 3LED information display, the VSRA has one LED.

Models

Model	Current Rating	Weight	Voltage	Size/mm
VSR80	80A	0.1kg	12V/24V	140 x 180 x 40
VSR160	160A	0.2kg	12V/24V	140 x 190 x 40
VSR240	240A	0.25kg	12V/24V	140 x 200 x 40
VSRB80	80A	0.1kg	12V/24V	80 x 90 x 90
VSRB160	160A	0.1kg	12V/24V	80 x 90 x 90
VSRA8012	80A	0.1kg	12V	80 x 90 x 90
VSRA16012	160A	0.1kg	12V	80 x 90 x 90
VSRA8024	80A	0.1kg	24V	80 x 90 x 90
VSRA16024	160A	0.1kg	24V	80 x 90 x 90



VSR80



VSRA8012

Ignition Fed Relays Sterling also produces a range of ignition fed relays that will engage when a signal feed is received. They require a signal feed or ignition feed before they operate, and will not be influenced otherwise by input voltage.

Starter Interlock Starter battery interlock ensures that the relay is inactive when the starter motors engage, so the relays are not damaged by any surge current.

IP Rating Built to Ip66

Integrated Protections The IFR range (not the R range) have all the protections the CVSR, VSR and VSRB ranges do, regarding over-voltage and under-voltage readings.

Models

Model	Current Rating	Weight	Voltage	Size/mm
IFR1280	80A	0.1kg	12V	140 x 60 x 40
IFR12160	160A	0.1kg	12V	140 x 70 x 40
IFR12240	240A	0.1kg	12V	140 x 80 x 40
IFR2450	50A	0.1kg	24V	140 x 60 x 40
IFR24100	100A	0.1kg	24V	140 x 70 x 40
IFR24150	150A	0.1kg	24V	140 x 80 x 40
R12120	120A	0.1kg	12V	80 x 90 x 90
R24120	120A	0.1kg	24V	80 x 90 x 90
R12200	200A	0.1kg	12V	80 x 90 x 90
R24200	200A	0.1kg	24V	80 x 90 x 90



IFR12240



R12120

RELAYS Latching Relays

Pro Latch R	Sterling's Pro Latch R is a versatile latching relay with 4 primary operational modes.
Mode One	Bidirectional Charging Mode - This allows activation of the Pro Latch R at both sides of the relay, ideal for distributing a charge source from one battery bank to another. Activation voltages are ON at 13.3V and OFF at 12.9V
Mode Two	Battery Protection Mode - This mode allows the user to protect the battery from excessive charge or discharge. The ON voltage is 12.9V and the OFF voltage is 10.9V.
Mode Three	Engine Start Protect - This mode allows the user to protect the starter battery from discharging beyond a point whereby they will not be able to crank-start the engine. The ON voltage is 12.9V, the OFF voltage is 12.3V.
Mode Four	Unidirectional Charging Mode - This allows for relay activation from only one side of the relay. Very similar to mode 1, but without being bidirectional. The ON voltage is 13.3V, the OFF voltage is 12.9V.
Latching Relay Benefits	Like other Sterling latching relays the nature of the connection means that we only draw an amp for a fraction of a second rather than requiring half an amp continuously to stay shut.
Voltage Range	12/24V auto select
IP Rating	IP68 rated
Ideal For Efficiency	Ideal for low harvest technologies, like Solar or Wind distribution.

The remote control offers additional understanding and function, more than you might expect from a relay. The remote offers the following features a voltage in/out reading, manual control and override and trip alarm controls.

Model	Current Rating	Peak Rating	Weight	Voltage	Stud Size	Size/mm
LR80	80A	500A	0.2kg	12V/24V	M6	140 x 60 x 40
LR160	160A	1000A	0.2kg	12V/24V	M8	140 x 70 x 40
LR240	240A	1500A	0.2kg	12V/24V	M8	140 x 80 x 40
LRR	The LRR is the remote for the LR range. 5m of cable inc.					

The LRB is the budget option for the LR range. It has statistics identical to the LR80 but cannot be customised.



LR80



LRR

BATTERY MAINTAINER An Echo / Mirror Charger for Battery Maintenance

Battery Maintainer	The battery maintainer is a charging device that enables an extra battery bank to be kept 'topped up' from the main battery bank which has the charging device(s) connected to it (e.g. alternator, battery charger, solar cell / wind turbine etc). The unit transfers approximately 3A (12V) and requires the charging devices to be turned on to work. It is best suited at keeping a starter battery topped up and maintained by the charge that your house bank receives.
IP Rating	Rated to IP65.
Protections	Ignition protected and reverse polarity protected.
Power Distribution	Ideal for distributing solar or wind charge from your primary bank back to your starter battery, allowing whole vessel maintenance.
12V	This unit can also be used to simply (and at a low cost) maintain a battery bank that sits at a different nominal voltage than your source.

Specifications

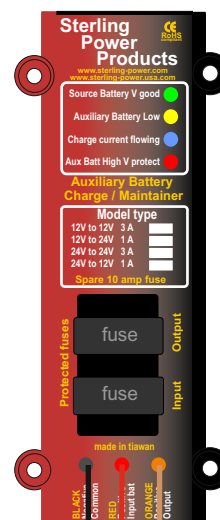
Offline Power Consumption	1mA
Online Power Consumption	1mA
Activation Voltage	13.3V
High Voltage Trip	15V
High Temp Trip	80°C
Disengage Voltage	12.9V

Models

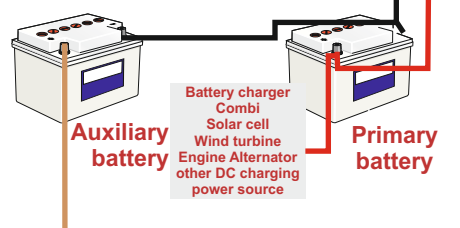
Model	DC Current	Weight	Voltage IN	Voltage OUT	Size/mm
BM12123	3A	0.25kg	12V	12V	140 x 45 x 40



Battery Maintainer



Battery Maintainer Install



PMP1 Power Management Panel for Full System Control

PMP1 The Power Management Panel (PMP1) is designed to display all the vital electrical information required on an average vessel, enabling important decisions to be made quickly regarding your onboard electrical power management that are, most importantly, accurate.

Four Channel Control Four individually monitored comprehensive channels, comprising of four voltmeters and four ammeters. One channel is dedicated to amphour reading, allowing you to know the capacity remaining in your battery bank.

LED Backlit Background lights ensure legibility in day and night light cycles.

Mounting Panel can either be surface or flush mounted

Shunts Comes with a 200A / 00mV shunt. Additional shunts (including shunts of up to 400A in continuous rating) can be ordered separately. Shunts can be installed on either the positive or negative lines.

Intelligent Shunt All measurements take place at the intelligent shunt itself, ensuring no reading-loss across long information cables back to the PMP.

Power Consumption 0.5mA when OFF, 0.7mA when ON.

Dimensions 170 x 90 x 40mm

Weight 0.25kg

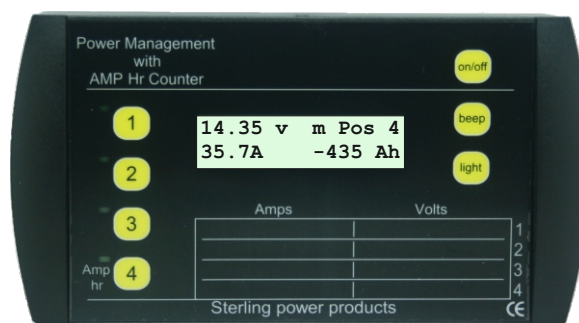
Voltages Suitable for 12V & 24V system monitoring

Product codes

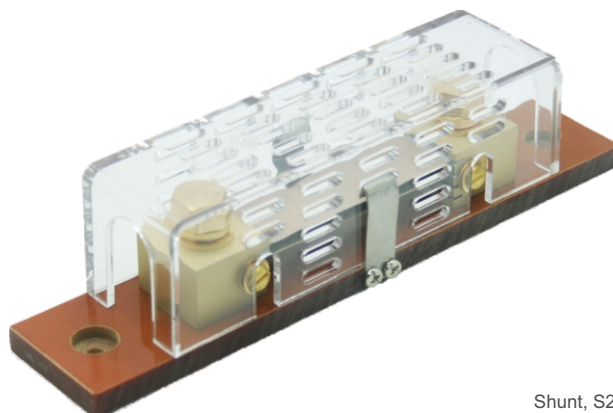
PMP1 Power Management Panel, inc. S200A shunt

S200A Additional 200A shunt, 200 x 40 x 50mm

S400A Additional 400A shunt, 260 x 55 x 50mm



Power Management Panel Display



Shunt, S200A

BM2 500A rated Battery Monitor. Bluetooth Enabled Shunt + Remote

BM2 The Battery Monitor (BM2) is AMPS' high precision power management device, intended for use in the DC negative of your power system. When installed correctly, the device will accurately measure charge, discharge and battery capacity accurately at any given time.

Bluetooth and Lithium Compatible

The BM2, as a modern battery solution, is suitable for all battery types (Lead acid, Calcium, Lithium etc.) and is able to be read both from a live Bluetooth feed as well as from the remote connected to the unit.

Features and Capabilities

The BM2 monitors your battery bank and DC circuits, giving you accurate information on :

- Remaining battery capacity (measured both as Ampere Hours and as a percentage reading)
- Battery bank voltage (in Volts, of course)
- Current passing the shunt at any given time (in Amperes)
- The App will also provide history and data-logging for your system

Specifications

Amperage Rating Continuous	Up to 500A
Maximum current monitoring	Up to 999A
BM2 Bolt Size	10mm / M10 - 40mm long
Working Voltage Range	8V-80V
Wattage consumption	0.144W (12mA at 12V)
Standby consumption	0.006W (0.5mA at 12V)
Quiescent / Sleep current	0.0006W (50uA at 12V)
Capacity accuracy	+/-0.5%
Voltage accuracy	+/-0.5%
Current accuracy	+/-0.5%
Capacity Ah setting	up to 9999Ah 9999Ah (app)
Weight	600.0g (Shunt + Remote)



500A | 75mV Shunt

Included Items :

The BM2 comes with :

- 1x Bluetooth compatible remote display
- 1x BM2 shunt (with mounting bracket)
- 1x Shunt power cable (1m)
- 1x Remote cable (1m by default, 3m and 6m options available - if shunt and remote are further away that 1m)



1m shielded wire - shunt to remote connecting wire

1m power lead to run the BM1 (B+ lead)

Model	SKU
Battery Monitor 2 w/ 500A 75mV Shunt + bluetooth + 1m of power lead + 1m remote lead	BM2
3m - 3 meters of extension cable between remote and shunt	3M
6m - 6 meters of extension cable between remote and shunt	6M

PRO PULSE Battery Desulphation & Maintenance Device

- The Pro Pulse** For battery chemistries that can benefit from a desulphation cycle, the Pro Pulse maintenance device is the perfect budget-friendly tool to significantly prolong your battery life and performance.
- Sulphate Buildup** Sulphate can build up on your battery plates gradually through use. By connecting a Pro Pulse (or one of Sterling's other intelligent chargers) this sulphate can be removed, giving you your battery performance back and ensuring longer functioning life.
- Sterling Products** Not required if you already have one of Sterling's intelligent battery chargers as most of our charging systems already integrate a desulphation cycle for your batteries as an option.
- Operational Range** This product does require a charge source to operate, it does not deplete your battery bank in operation. Operational voltages are 13.3V+ at 12V, and 26.6V+ at 24V.
- IP Rating** Models are built to an ingress protection rating of IP66
- Battery Requirements** Only use on batteries that benefit from a desulphation cycle (generally open lead acid batteries)

Models

Model	Dimensions (mm)	Weight	Battery Bank	Battery Voltage
PPW12150	90 x 90 x 60	200g	Up to 150Ah	12V
PPW12500	90 x 90 x 60	200g	Up to 500Ah	12V
PPW24250	90 x 90 x 60	250g	Up to 250Ah	24V

Product Photo



PPW12500 Angled



PPW12500 Facier

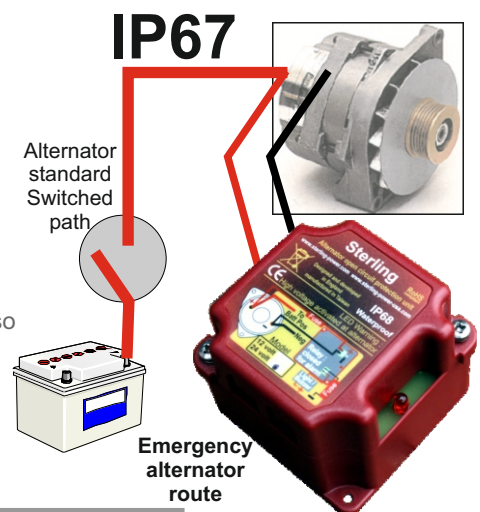
Alternator Protection Device

Protects your alternator from **massive spikes** caused when you inadvertently isolate an alternator by switching the battery off or a cable is loose or a fuse blows. Protects against any action which results in the alternator being disconnected from a battery when in operation.

Simple safe emergency route for that spike to be discharged giving full protection to the alternators regulator.

The protection device does not carry the main current of so only light wiring is required.

Unit works with any alternator or splitting device (12V or 24V).



Model	Dimensions (mm)	Weight	Voltage
APD12	90 x 90 x 60	200g	12V
APD24	90 x 90 x 60	200g	24V

AC CROSSOVER Automatic and Manual AC Crossover Switches

The Pro Switch 32 (AC32A)

The Pro Switch 32 (**AC32A**) is a 3 input 32A automatic AC crossover switch. It is designed to enable the user to connect 3 AC sources to a central unit and to have the Pro Switch intelligently choose between them. The output then directs to your ring mains.

Three AC Sources

The three typical sources the AC32A chooses between is shore power, an inverter supply and a generator. Position one (generally AC mains but could be from a solar inverter if preferred) takes priority, switching to two and three as required.

Rating

Rated at up to 7000W continuous at 240V (32A at 230VAC), and 3500W continuous at 110V (32A at 110VAC). On the generator channel (Pos 2) we have a 10 second delay on start-up to allow generator stabilization.

Non Parasitic

The AC32A powers itself from the AC lines, ensuring that we are not drawing anything parasitically from your house system.

110V/240V

Suitable for 240V or 110V

Manual Control

Remote ON/OFF switch enables manual control or distribution.

Product Images



AC32A, 32A AC Auto Crossover Switch



CON1, additional 20A contact relay

Product Codes

Model	Description
AC32A	32A AC Auto-crossover Switch
CON1	Additional 20A AC relay

Manual Crossover Switches

An easy to use, easy to install manual 3-way crossover switch. Available in 16A, 30A and 50A variants.

Supplied with 2 shafts for thin panel mounting or for 1/2 panel mounting.

Ideal where 3 power sources are used, such as inverters, shore power and generator sources.

Model	Outputs	Inputs	Rating	V-Max
SC16A	1	3	16A	300V
SC32A	1	3	32A	300V
SC50A	1	3	50A	300V



Manual Crossover Switch

ZINC SAVERS The Pro Save Range of Galvanic Isolators / Zinc Savers

The Problem In order for modern boat builders to comply with modern CE standards such as EN ISO 13297 they must fit the shore earth wire to your boats bonding system which is also connected to the hull / anodes etc. This ensures that any 230V mains faults will operate the R.C.D on the boat in order to save your life. However, now your boat is connected to the rest of the boats in the marina. This results in 2 main problems. Firstly, any increase in voltage on any earth in the marina may result in the dissolving of your anodes. Secondly, if you have a zinc / magnesium / aluminium anode on your boat and the boat next to you (or marina) does not then your boat shall be protecting everyone resulting in dramatic losses of anode.

The Solution The solution, Sterling's **Pro Save**. The zinc savers maintain the continuity with the earth to ensure safety (EN ISO 13297 standard) but prevent any stray currents coming up the earth. The Pro Save has to be built to stringent testing and has to be able to carry its current rating for 24 hours without exceeding 90 degrees centigrade.

Ratings Units should be rated to their AC shore power rating for use. Small marinas should be fine with the 16A units, but the 30A or 50A units should certainly be considered for use in the medium or larger marinas.

Available with or without internally installed capacitors, available on the 30A or 50A models. This raises performance in extreme AC leakage conditions.

ZSXXA and ZSXXC product photos

Model	AC (A-MAX)	Weight	Voltages	Size/mm	Notes
ZS16A	16A	1.0kg	110/240V	120 x 100 x 90	Non cap model
ZS30A	30A	1.5kg	110/240V	220 x 120 x 100	Non cap model
ZS50A	50A	1.8kg	110/240V	220 x 165 x 100	Non cap model



Model	AC (A-MAX)	Weight	Voltages	Size/mm	Notes
ZS30C	30A	1.5kg	110/240V	220 x 120 x 100	Capacitor model
ZS50C	50A	1.8kg	110/240V	220 x 165 x 100	Capacitor model



New Pro Save W The Pro Save W offers all the protections of the existing Pro Save range but in a waterproof housing

Safety First Warning LEDs can indicate either that there is a break-through fault, in that the earth voltage has exceeded the device's protection threshold or that there is a massive short-circuit way beyond the products rating. If either of these warning LEDs indicate, there is a serious threat to equipment onboard and potentially a threat to life. Fully complies to EN ISO 13297

Resilience Able to run at its rating continuously, or at 20% over its rating for 24hrs without exceeding 78°C.

Model	AC (A-MAX)	Weight	Voltages	Size/mm	Notes
ZSW32	32A	1.0kg	110/240V	150 x 120 x 118	6mm bolt, waterproof
ZSW64	64A	1.0kg	110/240V	150 x 120 x 118	6mm bolt, waterproof
ZSW130	130A	1.8kg	110/240V	155 x 170 x 118	8mm bolt, waterproof



ZSW32, ZSW64



ZSW110

IH SERIES A range of 240VAC Induction Hobs, for onboard electric cooking

Induction Cooking	One of the toughest parts of moving a power system away from gas/fuel and over towards full electric, is always going to be the heating and cooking aspects. In terms of genuinely efficient cooking, you cannot do much better than an induction hob.
Induction versus Infra-red	In terms of efficiency (which can become fairly important when powering your cooking from your battery bank) and safety (which is always critical!) there's not really a better way of cooking than induction. Whereas infra-red or even resistive based heaters (think : electric oven) heat indiscriminately and can lead to extremely hot isolated points that could pose a risk of fire, induction systems operate off of magnetics. What this means in practical terms is twofold. Firstly, energy is only going to go into the magnetic cookware, rather than being wasted on heating all the air or other equipment around it, drastically reducing cook-time and reducing the wasted load on your batteries. Secondly, risk of gas leak, gas ignition, or risk of fire are drastically reduced if not eliminated altogether.
Multiple power levels	Each induction hob ring can operate from as low as 200W (800W pulsed- induction circuit can only engage at 800W minimum) all the way up to 1500W, giving the user full control over their power usage and speed of cooking.
Made to Last	Zinc alloy plated frames, and an easy to clean glass face means the hobs can be kept clean with ease.
Safe	Induction hobs are safer than gas, open flame or resistance based cooking just by the very nature of how they operate. Our induction hobs also feature over temperature, over-and-under voltage protection and over-current protections. They even feature an error signal incase you're using the incorrect cookware.
Power Share (Twin Hobs)	The twin hob models (IHFB, IHSBS) can have each hob individually set to their own power ratings - completely independently of the other hob. Each hob can be ran up to 1800W peak, or both hobs can be ran at the same time at up to 1400W - a total limit of 2800W.
Clear User Interface	Simple to understand touch sensitive controls and an up to date information display ensures you know exactly what the hob is doing, and exactly what you're adjusting.
Pre-Cabled	Comes with 1.5m of AC cable, pre-equipped with a British Standard 3 pin plug.
Approvals	CE, EMC, ROHS approval.

AC (V)	Power (W)	Hobs	Mountable	L x W x D (mm)	SKU
230	1000	1	Y	195 x 195 x 65	IH1L
230	1500	1	N	282 x 311 x 72	IHP
230	1500	1	Y	288 x 288 x 82	IH1
230	2800	2	Y	520 x 290 x 90	IHFB
230	2800	2	Y	365 x 575 x 90	IHSBS
230	1000	1	Y	250 x 210 x 55	IH2L
230	2000	1	Y	390 x 300 x 56	IH2



IH2L



IHP



IH1 + IH1L



IH2



IHFB



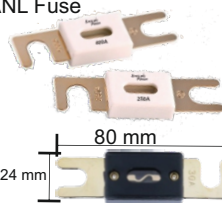
IHSBS

FUSES Fuses and Fuse Holders

Fuse packs

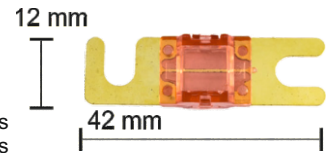
ANL Fuses Single Pack (gold plated)

Sterling Part Number 1 x ANL Fuse
GANL80 80A ANL Fuse
GANL100 100A ANL Fuse
GANL150 150A ANL Fuse
GANL200 200A ANL Fuse
GANL250 250A ANL Fuse
GANL300 300A ANL Fuse
GANL350 350A ANL Fuse
GANL400 400A ANL Fuse
GANL500 500A ANL Fuse
ANLMP Multi pack 1x each of above (9 fuses)



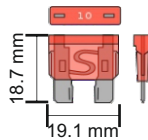
Mini ANL / AFS Fuse Dual Pack

Sterling Part Number 2 x Mini ANL / Fuse
AFS20D 20A MINI ANL Fuses
AFS30D 30A MINI ANL Fuses
AFS40D 40A MINI ANL Fuses
AFS60D 60A MINI ANL Fuses
AFS80D 80A MINI ANL Fuses
AFS100D 100A MINI ANL Fuses
AFS120D 120A MINI ANL Fuses
AFS150D 150A MINI ANL Fuses
AFSMP Multi pack 1x each of above (8x2 fuses)



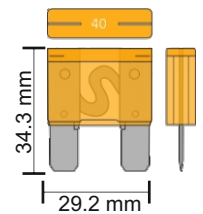
ATC/ATO Fuse Dual Pack

Sterling Part Number 2 x ATC/ATO Fuse
ATC5D 5A ATC / ATO Fuses
ATC10D 10A ATC / ATO Fuses
ATC15D 15A ATC / ATO Fuses
ATC20D 20A ATC / ATO Fuses
ATC30D 30A ATC/ATO Fuses
ATC35D 35A ATC/ATO Fuses
ATC40D 40A ATC/ATO Fuses
ATCMP Multi pack 1x each of above (7x2 fuses)




















Maxi AMT Fuse Dual Pack

Sterling Part Number 2 x AMT Fuse
AMT20D 20A Maxi AMT Fuses
AMT30D 30A Maxi AMT Fuses
AMT40D 40A Maxi AMT Fuses
AMT50D 50A Maxi AMT Fuses
AMT60D 60A Maxi AMT Fuses
AMT70D 70A Maxi AMT Fuses
AMT80D 80A Maxi AMT Fuses
AMT90D 90A Maxi AMT Fuses
AMTMP Multi pack 1x each of above (8x2 fuses)



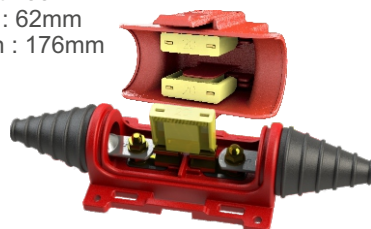
All fuse holders

ATC fuse	AMT / Maxi fuse	AUE fuse	Mini ANL	Resettable Fuses
 GATC 1428 1 in 2 out 1 X 10 mm 2 X 6 mm FUSED OUT 115g	 GMFB 1428 1 in 2 out 1 X 10 mm IN 2 X 6 mm OUT 170g	 GFH-04-1 Single AUE fuse holder 10mm cable with eye Bolt for battery terminal 50g	 FHMNS single FHMN4 pack of 4	 CB50 50A Fuse CB100 100A Fuse CB150 150A Fuse CB200 200A Fuse CB250 250A Fuse CB300 300A Fuse
 GATC 2828 2 in 2 out 2 X 6 mm IN FUSED OUT 115g	 GMFB 2828 2 in 2 out 1 X 6 mm IN 2 X 6 mm OUT 170g	 GFB 3428 2 X 6 mm IN 2 X 6 mm FUSED OUT 203g	 AFS4FB 4 way fuse block	
 GATC 3448 3 in (solid) 4 out 3 X 10 mm IN (SOLID) 4 X 6 mm FUSED OUT 223g	 GMFB 3448 3 in 4 out 3 X 10 mm IN (SOLID) 4 X FUSED 6mm OUT 320g	 GFB 4848 4 X 6 mm IN 4 X 6 mm FUSED OUT 371g BUSS BAR LINK INCLUDED Ring connector	 GFH8 8 mm studs	Multi ATC fuse ATC / ATO fuse holder w/ LED fault lights with negative bussbar
 GATC 4848 4 in 4 out 4 X 6 mm IN AND FUSED OUT 220g	 GMFB 4848 4 in 4 out 4 X 8 mm IN 4 X 8 mm 170g	 GFB Footprint 148mm x 110 mm 4 X holder for	 GFH12 12mm studs 2 x 8mm	FH6W 6 Way FH12W 12 Way

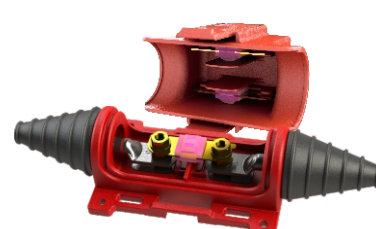
Water resistant multi-fuse holder : **BFH1**

Sterling's innovative and water resistant **BFH1** fuse holder fits a broad number of fuse types in one. **ATO, ATC, AMT and Maxi fuses** can all be used with the **BFH1** fuse holder.

Unit height : 53mm
 Unit width : 62mm
 Unit length : 176mm



Blade fuse mounting



Mini ANL fuse mounting

ELB SWITCHES Electric Latching Isolation Switches

ELB Isolation Switches	Electrical Latching Battery isolation switches are used to completely isolate a battery bank, preventing any unwanted current drain from occurring. Many users want to cut any possible leakage from their starter or appliance system so their vehicle can actually run when they come back to it.
Important ELB Features	The key features to look for when selecting your suitable ELB is the Continuous Rating, the Overload Rating and then the ELB current draw when in the OFF state. Sterling ELBs are market leading in all three.
Control/Source battery	The battery powering the ELB does not have to be the battery we are focusing on isolating, giving you greater control over how your system operates.
ELB Ratings	160A-640A latching circuit rating for continuous operation. Work out what the continuous load is likely to be in order to rate your ELB system correctly.
Ignition Feed Interlock	The ELB has an ignition feed safety interlock circuit, protecting your system from being disconnected from your alternator while it is running. This ensures that we do not ever disconnect your charge circuit mid-operation, protecting against the possibility of alternator voltage spikes.
Peak Rating	The ELBs can handle a 5 second peak of 1500A-6000A, and a 30 second peak of 600A-2400A.
8mm Bolt	M8 (8mm) bolts to ensure good constant electrical contacts.
Latching / Control Circuits	The latching circuit and the control (power) circuit are isolated from one another. The latching circuit is rated for voltages up to a maximum of 50V, whereas the control circuits can either be operating from 12V or 24V battery systems. This also means the ELB can latch on either the NEGATIVE or POSITIVE lines - whatever suits your needs better.
Latching Relay Consumption	Latching relays do not consume any power to remain closed. They draw 2A for 0.5S to close in the first place, equating to about 0.0003Ah - barely worth considering.
Rocker Switches	The ELB comes with a momentary rocker switch for operation, however you can purchase a keylock if required.
IP Rating	Built to IP66

Models

Model	Current Rating	30s Rating	Starter Rating	Weight	Source V	Size/mm
ELB12160	160A	300A	N/A	0.2kg	12V	90 x 90 x 80
ELB24160	160A	300A	N/A	0.2kg	24V	90 x 90 x 80
ELB12240	240A	450A	Car/Small Van	0.2kg	12V	90 x 90 x 80
ELB24240	240A	450A	Car/Small Van	0.2kg	24V	90 x 90 x 80
ELB12480	480A	1000A	<600hp Lorry	0.4kg	12V	150 x 100 x 120
ELB24480	480A	1000A	<600hp Lorry	0.4kg	24V	150 x 100 x 120
ELB12640	640A	1300A	<1000hp Lorry	0.4kg	12V	150 x 100 x 120
ELB24640	640A	1300A	<1000hp Lorry	0.4kg	24V	150 x 100 x 120
ELS1	Extra momentary switch (one is provided with each ELB)					
ELKS1	Key operated switch with 2 keys - only momentary switches can be used					



ELB12160->ELB24240



ELB12480->ELB24640



STERLING
POWER

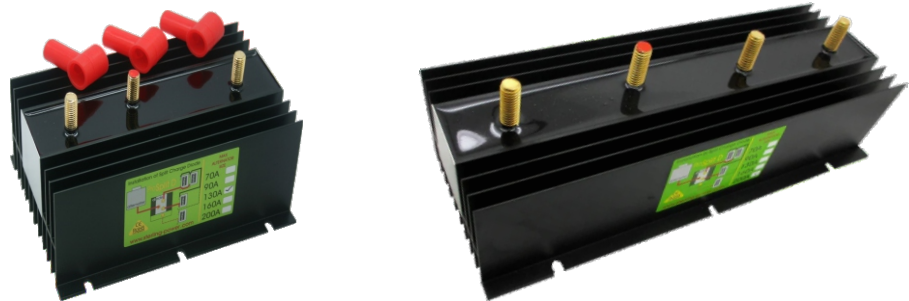
DIODES AND SWITCHES Split Charge Diodes (70A-200A) and DC Isolation Switches

Split Charge Diodes Features

Lower cost than traditional diode splitters

Enhanced performance vs other manufacturer diodes

Multi output power systems



Split Charge

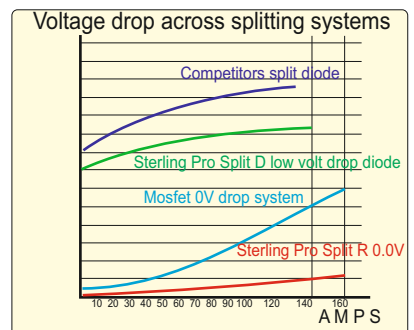
Many vessels have multiple battery banks that they need to keep maintained from a single charge source, while keeping the banks isolated from one another. A starter battery bank, a domestic battery bank and a bow thruster bank are most common.

Diode Splitter Comparison

Diode splitters are the classic method of power distribution and many vessels would historically have been fitted with one. While all diode splitters, have inherent loss across them, Sterling diode splitters are a cut above competition.

Comparison Information

	Conventional Splitters				Sterling's Pro Split D			
AMPS PASSED (A)	30	50	60	70	30	50	60	70
VOLTAGE DROP (V)	0.93	0.95	0.97	1.1	0.78	0.75	0.74	0.74
POWER LOSS (W)	27.9	47.5	58.2	77	23.4	37.5	44.4	51.8



Benefits of Sterling Diodes

With less volt-drop, your system is more efficient, your batteries charge quicker and you have a happier system as a whole. If you want to avoid volt-drop altogether, consider a Pro Split Relay or Pro Latch Relay system from Sterling.

Overcoming Volt drop

Some of this volt-drop can also be overcome by using items such as the Alternator Regulator or the Alternator to Battery charger, and using their voltage sense capabilities.

Models

Alternator Inputs	Battery Banks	Max Alt Rating	Dimensions/mm	Weight/g	Product Code
1	2	130	100x170x80	200	D130A2
1	3	130	100x170x80	200	D130A3
1	2	160	100x210x80	300	D160A2
1	3	160	100x210x80	300	D160A3
1	2	200	100x280x80	300	D200A2
1	3	200	100x280x80	300	D200A3
1	2	70	100x90x80	100	D70A2
1	3	70	100x90x80	100	D70A3
1	2	90	100x105x80	200	D90A2
1	3	90	100x105x80	200	D90A3

Isolation Switches

Key Features:

Spare Key, Cover seal for switch

200A continuous
1000A overload



200A Battery Isolator Pro Isolator			
DC (A)	Voltage	Weight Kg	Code
200	12V / 24V	0.1	IS200

300A continuous
2000A overload
10mm studs



300A Battery Isolator Pro Isolator			
DC (A)	Voltage	Weight Kg	Code
300A	12V	0.3	IS300



2 pole rotary battery isolation switch

Sterling Part Number

RSW 2 pole rotary battery isolation switch [White]
1x 2 pole rotary battery isolation switch [White]

Battery isolator 275A

Sterling Part Number

BSW275 Battery isolator 275A [WHITE]
1x Battery isolator 275A



Waterproof Battery isolator 275A

Sterling Part Number

BSWW Battery isolator 275A w/ waterproof box
1x Battery isolator 275A w/ external waterproof box.



HVDC12 High Voltage Disconnect, 12V 60A 'Voltage Fuse'.

HVDC Features



The Problem- High Voltage	Malfunctioning regulators (Solar, wind, alternator regulators) can fail. Sometimes they fail safely and power simply stops- and sometimes they fail in a state that dumps a high voltage onto your DC circuit. Whether this is an alternator regulator losing regulation (and operating at over 16V) or whether this is a solar regulator bonding the PV input (Often >30V) directly to the DC output, it's not ideal.
	The effect this high voltage, whether spiked or sustained, can have on 12V equipment (batteries, chargers, inverters, electrical equipment) can be destructive and irreparable.
The Solution- HVDC	The HVDC12 is a 12V battery protection device that protects your 12V battery(s) and your 12V system from instant and / or sustained high DC voltage spikes that can occur in your DC system.
Simple Install	The HVDC12 has 2 studs. 1 of the terminals should be connected to your 12V battery / 12V system i.e. the 12V system you wish to protect. The other terminal is connected to your potentially risky solar regulator / wind generator / other potentially high voltage device.
Resettable	This is not a one time use item. Once it triggers, it will break the circuit between the battery bank and the high voltage source and can easily be manually reset, at the press of a button... Once you've resolved the problem! Consider it like a resettable fuse that monitors voltage instead of current.
Protect your system	The HVDC is designed as insulation against possible failures and to protect your onboard equipment. We have seen damage to some of our equipment that stems from other company regulator failures, The HVDC, however, does not make an already 'unsuitable' system suitable. It is a layer of protection from the possibility of things going wrong.

V-DC Trip	V-DC Limit	Amperage Rating	Bolts	Weight	Dimensions (mm)
16V	100V	60A	M6	300g	90 x 85 x 90

HARDY HIGH POWER PORTABLE POWER PACK

HARDY The HARDY is our newest step into the portable power pack industry, taking our years of experience of both Lithium power systems as well as onboard power and combining everything into one simple box.

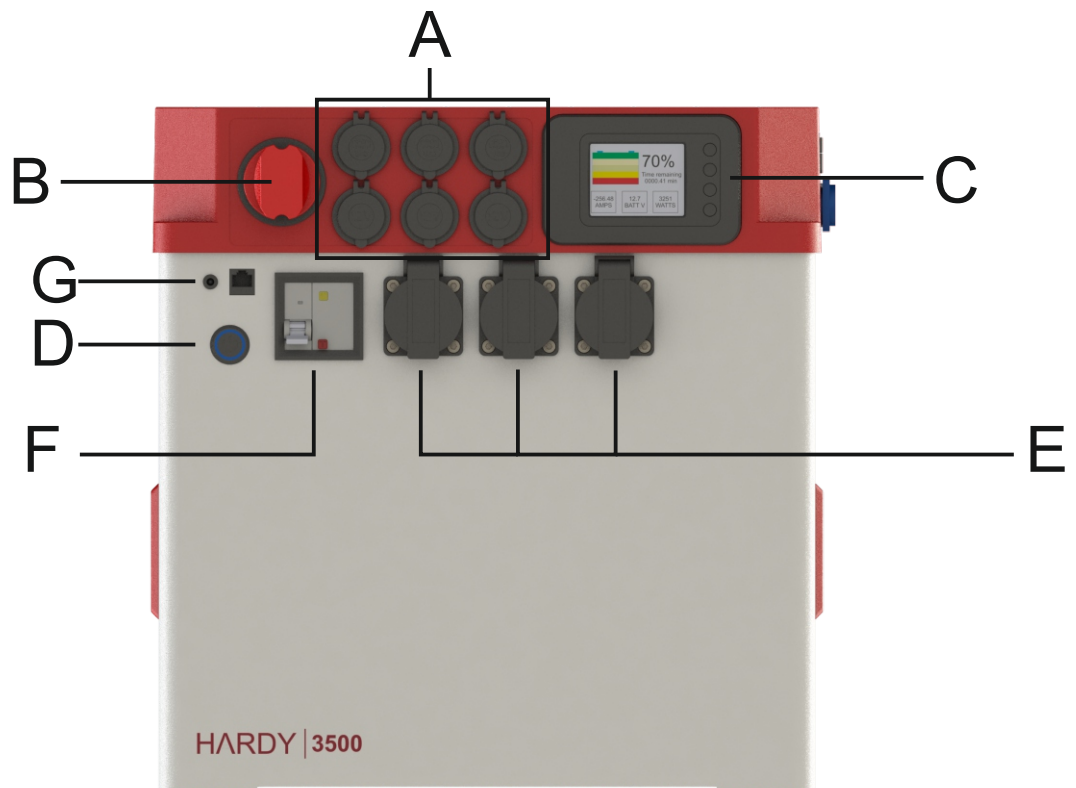
Entire Power System Boasting a 3500W pure sine wave inverter, AC/DC charging, DC/DC charging, numerous USB/USBC ports, an integrated high voltage solar regulator, numerous battery contact feeds and even a wireless charging pad for your phone... This has all the equipment your camper could want - in one, fairly priced box.

HARDY Specs	Battery capacity (H3500)	12.8V 150Ah 1920Wh
	Battery capacity (H3500P)	12.8V 300Ah 3840Wh
	Battery chemistry	LiFePO ₄
	BMS current rating	300A
	AC inverter power	3500W Continuous, 4000W Peak 230VAC 50hz 3x AC plug outlets (13A) + RCD Protection
	DC Outlets	3x USB-C 3x USB-A 3x 12V Cigarette ~150W 2x 50A input / outputs 1x 175A input / outputs 1x 15W wireless charger
	AC charger (Accessory)	100V-250VAC 50-60Hz 40A at 14.6V 600W
	MPPT Solar Regulator	700W up to 90VDC input (built in)
	DC/DC / Vehicle charger	50A charge 8-33VDC input (built in)
	Humidity	10-90%
	Operating Temp	-10 to 50DegC
	Dimensions	400mm 420mm x 265mm x 395mm
	Weight H3500	35.8kg
	Weight H3500P	43.2kg

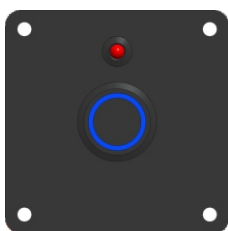
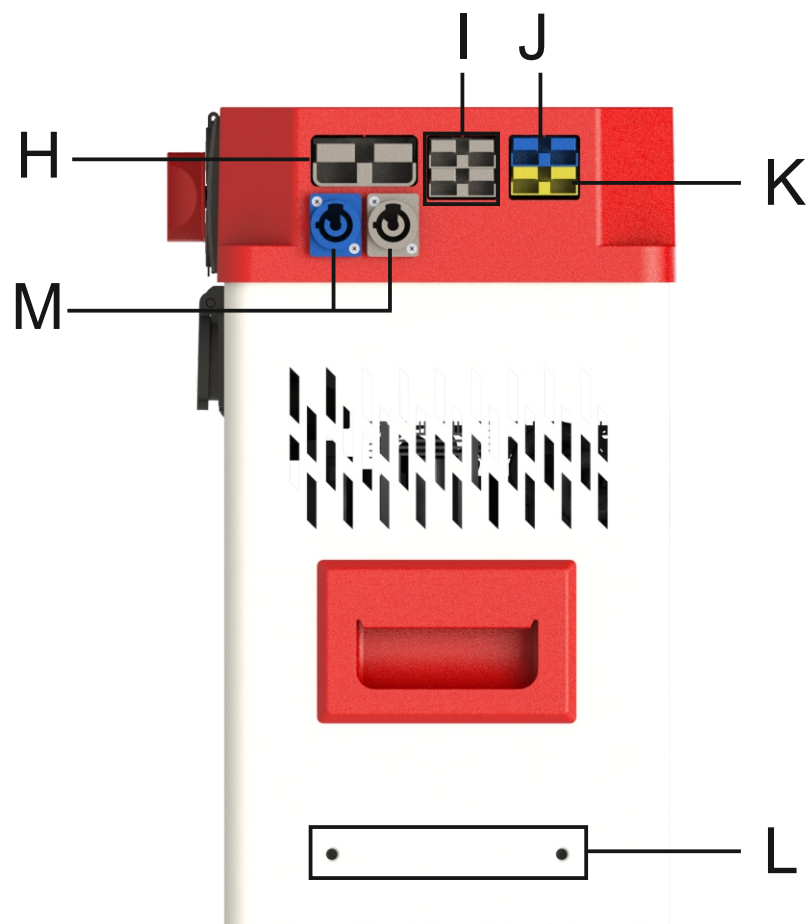


HARDY HIGH POWER PORTABLE POWER PACK BREAKDOWN

FRONT



SIDE



Remote Control

This switch plugs into G.
It comes with 10m of cable.
It turns the inverter on/off

HARDY HIGH POWER PORTABLE POWER PACK BREAKDOWN

Summary

The Hardy has an incredible collection of features- it really is an entire vehicle power system in one box. To help you understand its use we've broken it down into a few of its main parts and features- so you can be as confident as we are that it's the perfect item for you.

A USB + USB-C PORTS

The top row of three contacts includes 3x USB and USB-C/PD charge/power ports with easily accessible ON/OFF switches besides them. This can be used to power LED lighting, phone chargers and a wide array of other USB powered items. The bottom row incorporates 2x 12V DC cigarette sockets and 1x Engel socket, allowing an even bigger range of items to be powered.

B POWER SWITCH

A large, obvious and simple to understand power switch for the Hardy. Turn it on when you need it, turn it off when you're done.

C DISPLAY SCREEN

The screen gives you all the information that could be of use to you; remaining capacity, overall state of charge, actual power in motion (both in Watts and Amps). Consider this your onboard battery monitor.

D AC ON/OFF SWITCH

A simple and obvious button-switch to turn ON/OFF your AC sockets at leisure. The LED backing of the switch makes it obvious whether the plugs should be live or not.

E 3500W INVERTER SOCKETS

The 2x230VAC sockets on the Hardy can power more than you would expect. The Hardy has an **integrated pure sine 3500W inverter**. Each individual plug is rated to a normal 13A/3KW fuse, but with a 3.5KW continuous rating and a 5KW peak, it'll run more than you think. Final model will have an RCD installed.

F RCD

A built in RCD that trips upon an electrical earth leakage.

G RJ REMOTE PORT

RJ Port for remote control on/off for inverter - allows for remote access to switching inverter on/off

H 175A DC CONNECTION

This is the primary DC contact line using a 175A rated Anderson style connector and fused to 175A. Through here you can easily power a large range of DC appliances, connect higher powered DC chargers (like our BB12120) or even consider connecting another battery bank (if it's of equivalent charge) to extend your battery capacity.

I 2x 50A DC CONNECTIONS

These two smaller grey Anderson style sockets are similar to (F) but rated to 50A each, instead of 175A. The same rules apply, though. If you have a <50A charger available, or 50A DC appliances that you want to power, plug them right in.

J 30A DC/DC CHARGER

The blue Anderson style socket is for the in-built DC/DC charger. When paired with a D+ ignition feed it will draw up to 30A from this blue socket connection, normally connected to an alternator circuit so you can charge while you drive.

K 18-90VOC 700W SOLAR REG

The yellow Anderson style socket is for our solar regulator. With a VOC range of 18V-90VDC and a 700W upper limit on how much can be harvested, you've got a better system than most off-the-shelf regulators already built in. All you need to do is connect your PV circuit (either from the roof panels, or by considering our CSP range of deployable solar panels) and let the sun do the work for you.

L MOUNTING BRACKETS -

Mounting bracket connections points - on both sides. Brackets are provided.

M PowerCon AC input and output

AC input and AC output Power Con Connectors. Blue is AC input to feed the inbuilt charger and grey is to take AC out of the Hardy, via the 240VAC inverter.

UNPICTURED

On the top of the Hardy unit, there is a 15W Wireless/Induction phone charger, making it a perfect place for your phone.

Included Accessories

- Floor mounting brackets
- Pre-wired Solar Socket (MC-4)
- Spare 50A sockets
- Ignition feed cabling
- Pre wired Engel socket
- 175A Socket (Jump Leads)
- Anderson Dust/safety covers
- PowerCon connectors
- Remote Control for inverter

Includes 4x Hex screws to connect to Hardy body and 4x wood screws for floor/base connection.
 Yellow 50A Anderson Socket with Mc4 connector fitted cable
 Spare Anderson sockets (1x Yellow, 1x Blue, 2x Grey - Includes terminals)
 A simple plug and ring terminal for the Ignition contact on the Hardy
 As described
 175A Anderson Socket with large Jump Leads for a DC connection
 Spare covers for the Anderson sockets if unused- to protect against dust or corrosion.
 PowerCon connectors with attached AC charging lead (Blue). Also, a grey spare connector.
 Remote Control with 10m of extension cable to operate inverter.

ANDERS MID POWER PORTABLE POWER PACK

ANDERS The ANDERS is our newest step into the portable power pack industry, taking our years of experience of both Lithium power systems as well as onboard power and combining everything into one simple box.

Entire Power System Boasting a 2000W pure sine wave inverter, AC/DC charging, DC/DC charging, numerous USB/USBC ports, an integrated high voltage solar regulator, numerous battery contact feeds and even a wireless charging pad for your phone... This has all the equipment your camper could want - in one, fairly priced box.

ANDERS Specs	Battery capacity (H2000)	12.8V 100Ah 1280Wh
	Battery chemistry	LiFePO ₄
	BMS current rating	200A
	AC inverter power	2000W Continuous, 2500W Peak 230VAC 50hz 2x AC plug outlets (13A) + RCD Protection
	DC Outlets	3x USB-C 3x USB-A 1x 12V Cigarette ~150W 2x 50A input / outputs 1x 175A input / outputs 1x 15W wireless charger
	AC charger (built in)	100V-250VAC 50-60Hz 20A at 14.6V 600W
	MPPT Solar Regulator	230W up to 5VDC input
	DC/DC / Vehicle charger	20A charge 8-33VDC input
	Humidity	10-90%
	Operating Temp	-10 to 50DegC
	Dimensions	420 x 355 x 250mm
	Weight A2000	25kg
	Part number: A2000	



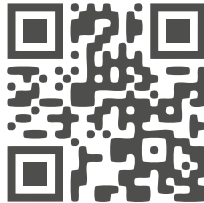
Thank you for considering Sterling. Happy travels.

Further consideration

You may also be interested in some of our other catalogues as they may include equipment not mentioned in this brochure.

If you are interested in placing an order or asking a question, please contact info@sterling-power.com

**Automotive Catalogue
A**



**Accessories Catalogue
C**



**Marine Catalogue
B**



**AMPS Lithium Catalogue
D**



Voltage drop specification			Safety regulations demands any cable directly connected to a battery source must be fused																			
Required Current based at approx 60 deg C 12V			Warning: this is total cable length not distance to product remember to add the pos and neg cable length as total																			
This chart for general reference only, cables sizes vary with ambient temperatures and other aspects Use only multi strand cable not solid core cable.																						
Cable length meters	Higher voltage drop Lights, pumps Non Critical equipment	Low voltage drop Inverters, chargers Critical equipment	5A	10A	15A	20A	25A	30A	40A	50A	60A	70A	80A	90A	100A	120A	150A	200A	300A	400A		
	0-6	0-2																				
	6-9	2-3																				
	9-15	3- 4.5																				
	15- 19	4.5- 6																				
	19-24	6-7.5																				
	24-30	7.5-9																				
	30-40	9-12																				
	40-51	12-15																				
	51-61	15-18																				
		18-21																				
		21-24																				
		24-27																				
		27-30																				
		30-33																				
		33-37																				
		37-40																				

AWG American Wire Gauge	Copper diameter mm	Copper Cross sectional mm sq	AWG American Wire Gauge	Copper diameter mm	Copper Cross sectional mm sq	AWG American Wire Gauge	Copper diameter mm	Copper Cross sectional mm sq			
	16	1.29	1.5		8	3.26	10.0		1	7.35	50.00
	14	1.63	2.5		6	4.11	16.0		0	8.25	60.00
	12	2.05	4.0		4	5.19	25.0		00	9.27	70.00
	10	2.59	6.0		2	6.54	35.0		000	10.40	95.00
									0000	11.68	120.00

For unknown cable simply measure copper conduit diameter and equate to the above chart. do not measure the cable insulation diameter. The mm sq figure is rounded up for Euro cables.



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