



Sterling Power Products Automotive Catalogue 2024

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

- New IP68 rated battery to battery chargers
- Solar regulators and accessories
- Induction hobs
- Inverters and inverter chargers
- AC/DC chargers, including the PCU New 'Vulcan' range of 5500W Hybrid Inverters New waterproof and universal input chargers
- Accessories and more!



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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.

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PCU1240

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

AC Input OR 90-270VAC // 45-65Hz, perfect for generator use

OR DC Input

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

Size A PCU

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 + ignition protection

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
- TemperaturesErrors
- 3m of cable

Models

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

Size A - 260mm x 215mm x 90mm Size B - 315mm x 215mm x 90mm



 ∇

PRO CHARGE ULTRA 2 03



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

The UBC1210 was designed to be a simple, cost efficient solution to small systems that need to be able to

AC to DC Battery Charger

STERLI

CE

Universal Input

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 settingsand 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!

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



Multi-UBC Systems



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



The AQ Series

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.

Modern, Sealed chassis

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

Multiple Isolated Outputs

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.

Global input, 3 stage charger

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.

LED Charge Display

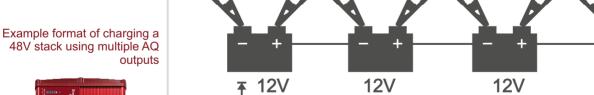
The AQ range of chargers have clear LED indicators on each isolated charge line, so you know exactly when your batteries are full or how far along the charge process is at just a glance.

Sealed/IP68 rated

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.

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

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.



48V

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Table AO	VAC In (Hz)	DC Voltages	Power	DC Output	Outputs	Dimensions (mm)	Product Code
12.00	100-250 (40-70)	12V 24V	300W	10A	2	163 x 210 x 70	AQ2410
- Hid 61 00 00	100-250 (40-70)	12V 24V 36V	450W	10A	3	244 x 210 x 70	AQ3610
	100-250 (40-70)	12\/ 24\/ 36\/ 48\/	6001//	100	1	$325 \times 210 \times 70$	A O 4810

100-250 (40-70) 12V|24V|36V|48V|60V 750W 10A 5 406 x 210 x 70 **AQ6010**SAE connectors - with croc clip or 8mm ring terminal extensions. Total DC cable length is 1.5m. Due to SAE

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

connectors, the cables can be extended. 8mm rings connectors are fused at 15A.



12V



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



270mm*130mm*73mm

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

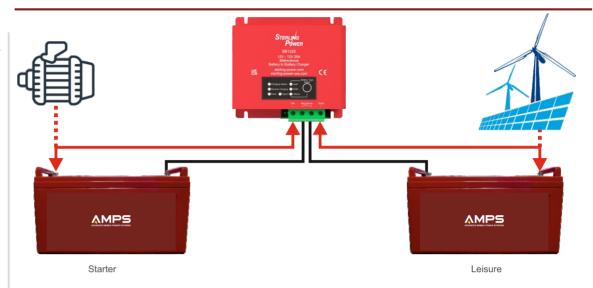
The Saturn opens up a whole range of possibilities- offering the possibilities of moving to 24V or even 48V leisure/domestic systems.

 * (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 equilisation 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)	LWD	Bidirectional	Reverse Charge	SKU
S	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

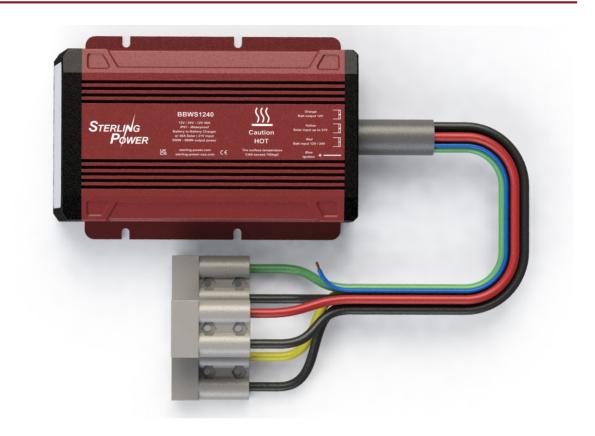
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IP68 rated

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

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	<u><</u> 31	350W	12V	BBWS1225
12V/24V	40A	<u>≤</u> 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.

Euro6 Compliant

The BB family of chargers are also all Euro6 compliant, having the option of ignition feed engagement in order to give you full control over when the unit comes on or off, overcoming modern vehicle limitations.

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 IP22 Non Waterproof

Known across the automotive and marine industries, this battery to battery charger and its predecessor pioneered the battery to battery charger market, an imperative choice for a modern charge system and suitable for all battery types and many varied and unique installs.



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

IP22 BB

BBC Wildside Caravan Spec Unit

Electrical requirements on caravans are ever evolving and maximising the charge capability of your system is hard - largely because the electrical infrastructure really wasn't prepared to charge batteries while driving/towing/touring. The wildside incorporates and utilises your existing 13pin plug connection in order to maximise the charge you can get through to your batteries while driving, in the simplest and most impressive way we can.

Further information, including instructions and installation are available on the Wildside webpage.



BBC1225



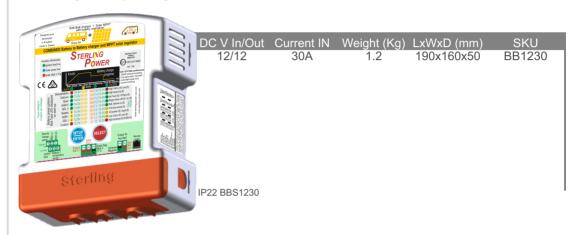
ESTABLISHED BB RANGE Extended Battery to Battery Charger Range

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 BB1230 footprint and software 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.



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
12/36	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

* BBWI - Isolated Output Model



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.

IP68 BBW1230

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

ones, mes mass sapasis

Parallel capable

48V/5500W inverter

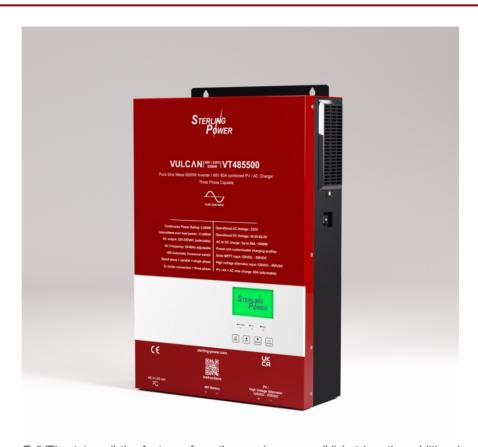
60A AC/DC Charger

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)	Υ	120-500V	VT485500



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



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



SKU	DC (V)	Power (W)	RCD	DC Current	LxWxD (mm)
PS121500	12	1500	Ν	~150A	454x262x113
PS122000	12	2000	Ν	~200A	454x262x113
PS123000	12	3000	Ν	~300A	565x262x113
PS241500	24	1500	Ν	~70A	454x262x113
PS242000	24	2000	Ν	~100A	454x262x113
PS243000	24	3000	Ν	~150A	565x262x113
PS482000	48	2000	Ν	~50A	454x262x113
PSRCD121500	12	1500	Υ	~150A	454x262x113
PSRCD122000	12	2000	Υ	~200A	454x262x113
PSRCD123000	12	3000	Υ	~300A	650x262x113
PSRCD124000	12	4000	Υ	~400A	650x262x113
PSRCD242000	24	2000	Υ	~100A	454x262x113
PSRCD244000	24	4000	Υ	~200A	650x262x113
PSRCD484000	48	4000	Υ	~100A	650x262x113
PSRC		Remot	e Contro	ol for PS Series	3

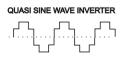
Quasi Sine

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



SKU	Waveform	DC (V)	Power (W)	RCD	DC Current	LxWxD (mm)
QS12200	00 Quasi	12	2000	N	~200A	430x430x113
QS12300	00 Quasi	12	3000	N	~300A	500x430x113
QS24200	00 Quasi	24	2000	Ν	~100A	430x430x113
QS24300	00 Quasi	24	3000	Ν	~150A	500x430x113
QSRC	RC 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	3500	PCS243500
24	3500	PCS243500





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

230	V Pure Sine Wa	ve 50 Hz AC	inverters 12V	DC and 24V DC 200W	- 2200W
Voltage	e Power	Weight	Size L x W x	Dmm Cables	Code
12V	200W	1.4Kg	210x190x85	1m Cig Plug	SIB12200
12V	300W	1.4Kg	210x190x85	1m DC 8mm ring	SIB12300
12V	600W	2.0Kg	250x190x85	1m DC 8mm ring	SIB12600
12V	1000W	2.2Kg	300x190x85	8mm connection	SIB121000
12V	1600W	3.6Kg	300x190x85	8mm connection	SIB121600
12V	2200W	4.5Kg	300x220x85	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	250x190x85	1m DC 8mm ring	SIB24600
24V	1000W	2.2Kg	300x190x85	8mm connection	SIB241000
24V	1600W	3.6Kg	300x190x85	8mm connection	SIB241600
24V	2200W	4.5Kg	300x220x85	8mm connection	SIB242200
	Option 2 Pre	-Fitted with F	RCD and with 1	meter AC cable	
12V	300W	1.5Kg	250x190x85	6mm connection	SIBR12300
12V	600W	1.8Kg	360x190x85	6mm connection	SIBR12600
12V	1000W	2.0Kg	300x190x85	8mm connection	SIBR121000
12V	1600W	3.6Kg	300x190x85	8mm connection	SIBR121600
12V	2200W	4.5Kg	300x220x85	8mm connection	SIBR122200
24V	300W	1.5Kg	250x190x85	6mm connection	SIBR24300
24V	600W	1.8Kg	360x190x85	6mm connection	SIBR24600
24V	1000W	2.0Kg	300x190x85	8mm connection	SIBR241000
24V	1600W	3.6Kg	300x190x85	8mm connection	SIBR241600
24V	2200W	4.5Kg	300x220x85	8mm connection	SIBR242200
230V P	ure Sine Wave 5	50 Hz AC inve	erters w/ RCD	12V DC and 24V DC 300	00W - 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 r	model 1600W	/ with Yellow S	ocket	
12V	1600W	3.6Kg	300x190x85	8mm connection	ASIB121600
24V	1600W	3.6Kg	300x190x85	8mm connection	ASIB241600
Remote	e control (fits all r	nodels)	90x60x20	5 metre	SWR

Product Images







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



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	W008	270 x 150 x 65	1.8	I12800		
	1000-270	0W Inc Ren	note control and 5	metres of c	able		
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	124100		
Universal	24V	150W	145L x 100 dia.	0.3	124150		
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	124350		
British / Euro	24V	600W	230 x 150 x 65	1.3	124600		
British / Euro	24V	800W	270 x 150 x 65	1.8	124800		
	1000-2700W Inc Remote control and 5 metres of cable						
British / Euro	24V	1000W	240 x 250 x 100	2.0	1241000		
British / Euro	24V	1800W	300 x 250 x 100	4.0	1241800		
British / Euro	24V	2700W	370 x 250 x 100	5.0	1242700		
British / Euro	24V	4000W	700 x 250 x 250	10.0	1244000		
British / Euro	24V	5000W	700 x 250 x 250	10.0	1245000		

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





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 Width 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

SKU	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







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

TUV/UL APPROVED

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

	4mm2	6mm2
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



Cable, double insulated, tin coated copper



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	Υ	195 x 195 x 65	IH1L
230	1500	1	N	282 x 311 x 72	IHP
230	1500	1	Υ	288 x 288 x 82	IH1
230	2800	2	Υ	520 x 290 x 90	IHFB
230	2800	2	V	365 v 575 v 90	IHSBS









IHSBS



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)

600.0g (Shunt + Remote)

- 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 10mm / M10 - 40mm long BM2 Bolt Size Working Voltage Range 8V-80V Wattage consumption 0.144W (12mA at 12V) 0.006W (0.5mA at 12V) Standby consumption Quiescent / Sleep current 0.0006W (50uA at 12V) Capacity accuracy +/-0.5% Voltage accuracy +/-0.5% Current accuracy +/-0.5% up to 9999Ah | 9999Ah (app) Capacity Ah setting



Included Items:

The BM2 comes with:

Weight

- 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



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 80 mm AFS100D 100A MINI ANI Fuses GANL300 300A ANL Fuse GANL350 350A ANL Fuse 24 mm GANL400 400A ANL Fuse GANL500 500A ANL Fuse ANLMP Multi pack 1x each of above (9 fuses)

Maxi AMT Fuse Dual Pack

AFS120D 120A MINI ANL Fuses

AFS150D 150A MINI ANL Fuses

Mini ANL / AFS Fuse Dual Pack

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

Sterling Part Number 2 x Mini ANL / Fuse

12 mm

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

က 34 29.2 mm

42 mm

AMTMP Multi pack 1x each of above (8x2 fuses)

AFSMP Multi pack 1x each of above (8x2 fuses)

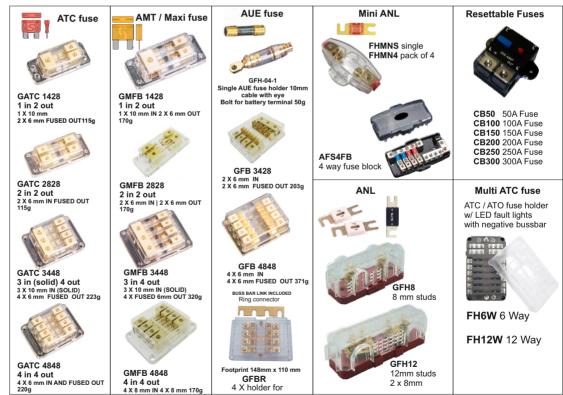
ATC/ATO Fuse Dual Pack

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)

All fuse holders



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

MANL1

For mini ANL fuses Holds 2x spares





MANL1 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 midoperation, 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 \	/ 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



A more complete list of our available relays is available in our Marine catalogue. We've chosen to omit many from the Automotive catalogue due to the difficulties arising with Euro-6 systems and voltage-based splitters.

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 VSRAs 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	2 80A	0.1kg	12V	80 x 90 x 90
VSRA1601	2 160A	0.1kg	12V	80 x 90 x 90
VSRA8024	4 80A	0.1kg	24V	80 x 90 x 90
VSRA1602	4 160A	0.1kg	24V	80 x 90 x 90





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





R12120



PRO PULSE Battery Desulphation & Maintenance Device, and Isolation Switches

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

DC Isolation Switches

200A Battery Isolator Pro Isolator							
DC (A)	Voltage	Weight Kg	Code				
200A	12V / 24V	0.1	IS200				
		•	.0200				
	Battery Isola	•	10200				
		•	.0200				

500A Battery Isolator Pro Isolator							
Voltage	Weight Kg	Code					
12V / 24V	0.5	IS500					
	Voltage	Voltage Weight Kg					

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]

Waterproof Battery isolator 275A

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

Battery isolator 275A

Sterling Part Number
BSW275 Battery isolator 275A [WHITE] 1x Battery isolator 275A







BSW275



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



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



Accessories Catalogue



Marine Catalogue



AMPS Lithium Catalogue



Safety regulations demands any cable directly connected to a battery source must be fused Voltage drop specification Required Current based at approx 60 deg C 12V Warning: this is total c This chart for general reference only, cables sizes vary with ambient temperatures and other aspects Low voltage drop inverters chargers Critical equipment Use only multi strand cable not solid core cable. 30A 40A 50A 60A 70A 80A 90A 100A 120A 20A 25A 150A 200A 300A 400A 0-6 0-2 6-9 2-3 Cable length meters 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
Ī	For unknown cable simply measure <i>copper conduit</i> diameter and equate to the above chart.								0000	11.68	120.00



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