

# BATTERY CHARGERS

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# The Sealey Buying Guide to Battery Chargers

Sealey offer an extensive range of chargers to suit both professional and home users too. This guide is designed to help you choose the right machine to suit your needs.

## Manual Transformer Chargers

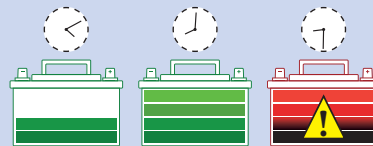
Basic transformer chargers which are manually operated and suitable for wet flooded or VRLA batteries only. Not suitable for use on AGM or EFB batteries.

Manual transformer chargers have the ability to charge a battery from a low voltage to fully charged status. This can take anything from 6 to 24 hours, depending on the level of discharge.

Some models are also equipped with an additional "Engine Starter" function. This function is typically found on larger, heavy-duty chargers and allows the user to jump start a vehicle with a discharged battery.

The user needs to decide the level of charge to be applied, monitor the charge status regularly and turn off the charger when the battery is fully charged.

Failure to turn off the charger once the battery is fully charged, could result in permanent damage to battery and in extreme cases, the battery could explode.



## Automatic Smart Chargers

These are often referred to as smart chargers or trickle chargers and utilise electronic circuitry and microchips, that automatically assess the condition of a battery. They then apply the ideal level of charge to optimise the charging procedure, resulting in a faster, more efficient charge. When the battery is fully charged, they revert to a maintenance mode, to keep the battery in a fully charged state. Therefore, there is no risk of damage to the battery.

In maintenance mode the charger will continually monitor and charge the battery as required over extended periods of time.

Other features on the Automatic Smart Chargers are as follows:

Some models in the Sealey range are also suitable for charging and maintaining modern lithium vehicle batteries.

Certain models also include a desulphation function. Sulphation occurs naturally in batteries. Over time it builds up on the battery's internal lead plates, reducing their efficiency and the lifespan of the battery.

The desulphation function creates a pulsed charge, which cleans off the sulphation, look out for the desulphation battery icon as shown right.

Vehicles that utilise "Stop Start" technology may require Smart Chargers to charge their batteries.



## Additional Functions

### Engine Starter Function

This function is typically found on larger, heavy-duty chargers and provides a high amp boost, which allows you to jump start a vehicle with a discharged battery. They work by transferring power directly from the internal transformer to a vehicle's discharged battery. The jump starter function will not charge your battery, but instead provides the necessary power to crank the engine and start the vehicle. Once the engine is on, the alternator will charge the battery. The biggest advantage of portable jump starters is that they do not require the running of another vehicle and can be used by just one person.



### Choosing The Correct Amperage

Now you've decided on the type of charger you need, there are a couple more points to consider. Bigger batteries require larger output chargers, therefore, you will need to choose a model capable of charging the largest battery you are likely to need to charge. Most chargers are suitable for charging Lead Acid Batteries, but not all are suitable for Gel, Calcium or AGM, EFB or Lithium batteries. Always refer to the battery manufacturer for specific charging instructions. Always refer to manufacturer's specific information prior to charging.

SPECIFICATION	6V/12V								
	DSBC8 (see page 620)	MBC250 (see page 620)	MBC420 (see page 620)	AUTOCHARGE100HF (see page 621)	AUTOCHARGE200HF (see page 621)	AUTOCHARGE400HF (see page 621)	AUTOCHARGE650HF (see page 621)	SPI2S (see page 623)	SUPERBOOST150D (see page 623)
Output:	6/12V	6/12V	6/12V	6/12V	6/12V	6/12V	6/12V	6/12V	6/12V
Zero Volt Charging:	✗	✗	✗	✗	✗	✗	✗	✗	✗
Battery Support/DC Supply Mode:	✗	✗	✗	✗	✗	✗	✗	✗	✗
Supply (Current*):	13A	13A	13A	13A	13A	13A	13A	13A	13A
Supply (Voltage):	230V	230V	230V	230V	230V	230V	230V	230V	230V
Plug Type:	3-Pin	3-Pin	3-Pin	3-Pin	3-Pin	3-Pin	3-Pin	3-Pin	3-Pin
Power Supply Cable Length:	1.8m	1.8m	1.8m	n/a	1.5m	1.5m	1.5m	2m	1.3m
Cable & Clamp Length:	1.8m	2m	2m	1m	1m	1m	1m	2m	1.2m
Charger Type: Traditional (T) or Intelligent (HF):	T	HF	HF	HF	HF	HF	HF	HF	HF
Battery Range:	9-112Ah	10-240Ah	10-120Ah	0.8-14Ah	1.3-60Ah	0.8-120Ah	1.3-200Ah	12-35Ah	30-300Ah
Max. Size Battery (Ah) Full Charge in 12hrs from Discharged:	60Ah	120Ah	60Ah	9Ah	19Ah	38Ah	62Ah	24Ah	180Ah
Output Charge Peak:	8A	2 X 5A	4 X 2A	1A	2A	4A	6.5A	2A	15A
Output Start Peak:	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	75A
Weight:	3kg	1.37kg	1.63kg	0.25kg	0.58kg	0.66kg	1.03kg	0.9kg	4.43kg
TYPE OF BATTERIES:									
VRLA (Lead Acid):	✓	✓	✓	✓	✓	✓	✓	✓	✓
GEL:	✗	✓	✓	✓	✓	✓	✓	✓	✓
AGM/EFB:	✗	✓	✓	✓	✓	✓	✓	✓	✓
Lithium:	✗	✗	✗	✗	✓	✓	✓	✗	✓
Leisure (Deep Discharge):	✗	✗	✗	✓	✓	✓	✓	✓	✓

SPECIFICATION	12V/24V								
	SPI1224S (see page 623)	BSCU25 (see page 619)	AUTOCHARGE1200HF (see page 621)	CHARGE106 (see page 624)	CHARGE107 (see page 624)	CHARGE110 (see page 624)	CHARGE112 (see page 624)	CHARGE115 (see page 624)	CHARGE124 (see page 624)
Output:	12/24V	12/24V	12/24V	12/24V	12/24V	12/24V	12/24V	12/24V	12/24V
Zero Volt Charging:	✗	✗	✗	✗	✗	✗	✗	✗	✗
Battery Support/DC Supply Mode:	✗	20A	✗	✗	✗	✗	✗	✗	✗
Supply (Current*):	13A	13A	13A	13A	13A	13A	13A	13A	13A
Supply (Voltage):	230V	230V	230V	230V	230V	230V	230V	230V	230V
Plug Type:	3-Pin	3-Pin	3-Pin	3-Pin	3-Pin	3-Pin	3-Pin	3-Pin	3-Pin
Power Supply Cable Length:	2m	1.8m	1.5m	2m	2m	2m	2m	2m	2m
Cable & Clamp Length:	2m	1.7m	1m	2m	2m	2m	2m	2m	2m
Charger Type: Traditional (T) or Intelligent (HF):	HF	HF	HF	T	T	T	T	T	T
Battery Range:	40-230Ah	75-500Ah @12V	1.3-400Ah	10-95Ah	20-105Ah	20-120Ah	20-180Ah	20-250Ah	25-320Ah
Max. Size Battery (Ah) Full Charge in 12hrs from Discharged:	180Ah	180Ah	115Ah	70Ah	85Ah	120Ah	150Ah	180Ah	280Ah
Output Charge Peak:	15A	25A	12A	8A	11A	14A	16A	19A	28A
Output Start Peak:	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Weight:	1.5kg	2.22kg	1.35kg	4.3kg	4.39kg	6.2kg	6.2kg	8.9kg	8.7kg
TYPE OF BATTERIES:									
VRLA (Lead Acid):	✓	✓	✓	✓	✓	✓	✓	✓	✓
GEL:	✓	✓	✓	✓	✓	✓	✓	✓	✓
AGM/EFB:	✓	✓	✓	✗	✗	✗	✗	✗	✗
Lithium:	✗	✗	✓	✗	✗	✗	✗	✗	✗
Leisure (Deep Discharge):	✓	✓	✓	✗	✗	✗	✗	✗	✗

\*Performance dependent on connection to an adequate, good clean electric supply.





**Battery Support Units**

A Battery Support Unit (BSU) is an essential piece of equipment for any workshop wanting to carry out diagnostic work, ECU programming or software updates to a car's electronics.



In fact, a Battery Support Unit is a valuable tool for all forms of modern vehicle servicing.

A BSU will supply a stable, higher than required voltage, whilst protecting vital components from damage throughout the programming or diagnostic process.

**Why is this Important?**

An ECU factory reprogram can take up to 14 hours (some vehicles may take longer). This is normally carried out overnight with the vehicle ignition off. The factory control program will access the vehicle systems and power these up as required to test and reprogram each control module. During this process it is imperative that the voltage supply to the vehicle is maintained.

If unsupported, as the battery voltage starts to drop, the vehicle will automatically shut down modules to ensure power can be saved to start and run the vehicle. This could lead to a situation where the diagnostic tool is unable to access the vehicle control modules to upload the software which could possibly disable the vehicle. Even a slight dip in voltage can cause modules to shutdown.

Our range of Battery Support Units cater for wide variety of batteries from, 20A to 100A power supply capability. The ECS models also have vehicle start facilities to start a vehicle with a flat battery.






20A - 13.5V



**BSCU25**

See page 619 for full details.






100A - 14.8V



**BSCU170**

See page 619 for full details.







30A - 13.5V



**SPBC30**

See page 622 for full details.






40A - 13.5V



**SPBC40**

See page 622 for full details.




20A - 13.5V





**ECS300**

See page 627 for full details.




25A - 13.5V





**ECS350**

See page 627 for full details.




30A - 13.5V





**ECS400**

See page 627 for full details.




40A - 13.5V





**ECS650**

See page 627 for full details.

**A**



**12V**  
**30A**

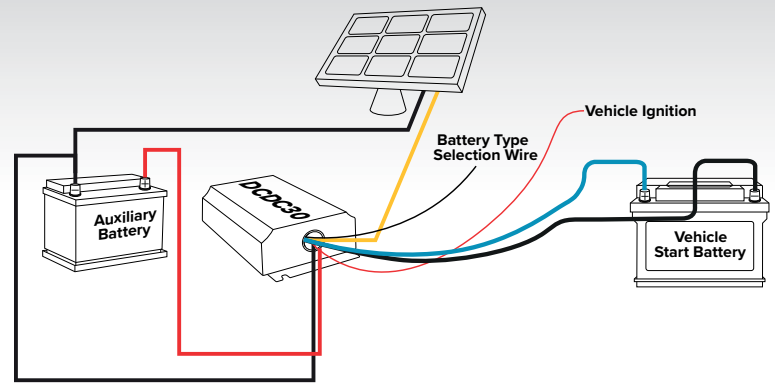
**2 YEAR**  
**GUARANTEE\***

**A DCBC30**

**30A 12V DC to DC Battery Charger**

DC to DC battery charger ideal for charging an auxiliary battery in vehicles such as camper vans and caravans. Will charge your second battery whilst driving and will be linked to the ignition switch to avoid draining your main battery (requires hard wiring). Designed for use with batteries including VRLA (Lead Acid), GEL, AGM/EFB and Leisure on 12V systems. Can be used in conjunction with a solar panel when the vehicle is switched off. Protected against short circuits, open circuits, output reverse polarity, overcharging, over-current and overheating. Rated at IP65 water resistance.

Input:	11.5V - 15.5V
Output:	13.3V - 16V
Output Charge:	30A DC
Battery Range:	60-300Ah (2000 CCA)
Cable Length:	270mm
Weight:	1.3kg
IP Rating:	IP65
Solar Input (Optional):	3-Stage
	(Max. Solar Input: 25V/400W)
Working Temperature Range:	-10 to +90°C



**B**



**12V/24V**  
**25A/12.5A**



**2 YEAR**  
**GUARANTEE\***

**B BSCU25**

**25A 12V/24V Battery Support Unit & Charger**

High frequency inverter type unit designed to both charge a battery and provide support for the battery during prolonged electronic diagnostic checks. Charge cycle has nine profiles designed to optimise the condition of the battery and the speed of the charge. Designed for use with vehicle batteries including VRLA (Lead Acid), GEL, AGM/EFB and Leisure on 12V and 24V systems. Temperature sensor allows accurate charging of battery, even when cold. Safety circuitry prevents sparks or polarity reversal. Once fully charged, battery may be left connected to be automatically conditioned and maintained.

Type:	9-Cycle with Support
Supply:	230V
Output:	12V/24V
Output Charge:	12V - 25A, 24V - 12.5A
Battery Support Mode:	13.5V DC - 20A
Battery Range:	12V - 75-500Ah, 24V - 45-250Ah
Plug Type:	3-Pin
Power Supply Cable Length:	1.8m
Cable & Clamp Length:	1.7m

**C**



**2 YEAR**  
**GUARANTEE\***

**12V**  
**100A**



**C BSCU170**

**100A 12V Schumacher® Battery Support Unit & Charger**

Fully automatic microprocessor controlled unit designed to both charge a battery and provide support for the battery during prolonged electronic diagnostic checks. Up to 100A power supply maintains stable voltage under varying loads during major vehicle ECU reprogramming and diagnostic work. Voltage settings between 13-14.8V for programming. 5m Heavy-duty cable, clamps and Anderson plug. Recovery/Desulphation mode will recover a discharged battery (>2V) to almost 100% of its original capacity. 70A continuous output current or up to 100A maximum for up to three minutes as required. Patent-Pending "thermal runaway" protection and algorithms allow fast and safe charging. Designed for use with vehicle batteries including VRLA (Lead Acid), GEL, AGM/EFB and Leisure on 12V systems. Dual temperature controlled cooling fans. Once fully charged, battery may be left connected to be automatically conditioned and maintained. Mounting brackets for installation on vehicle lifts. Durable aluminium case.

Supply:	230V
Output:	12V
Output Charge:	12V - 4A/20A/70A
Battery Support Mode:	100A - 3 minutes maximum 70A continuous (13 - 14.8V selectable)
Battery Range:	5-1000Ah
Plug Type:	3-Pin
Power Supply Cable Length:	2.6m
Cable & Clamp Length:	3m



**A-C SEE BELOW****Battery Chargers**

Compact VRLA (Lead Acid) battery chargers suitable for home and light workshop use. Easy-to-read ammeter to indicate the level of battery charge. Also features overheating, short and reverse polarity protection. Composite housing with carry handle. Model No. DSBC8 includes 6/12V and low/high power selection.

	<b>A</b>	<b>B</b>	<b>C</b>
<b>Model No:</b>	DSBC4	DSBC6	DSBC8
<b>Supply:</b>	230V	230V	230V
<b>Output:</b>	12V	12V	6/12V
<b>Peak Output Charge:</b>	4A	6A	8A
<b>Effective Output Charge:</b>	2.8A	4.2A	5.6A
<b>Battery Range:</b>	12-48Ah	20-80Ah	9-112Ah
<b>Plug Type:</b>	3-Pin	3-Pin	3-Pin
<b>Power Supply Cable Length:</b>	1.8m	1.8m	1.8m
<b>Cable &amp; Clamp Length:</b>	1.8m	1.8m	1.8m



All units are fitted with an ammeter. Model No. DSBC8 features 6/12V and low/high power selection.

**D-E SEE BELOW****6/12V Auto Maintenance Chargers**

Compact 6/12V battery chargers perfect for automotive, motorcycle and marine workshops. Suitable for charging a variety of batteries, charger reacts continuously to battery condition and delivers the optimum charge rate that is required. Constantly regulated voltage patterns allow the battery to be recharged fully and safely without fear of overcharging. Designed for use with vehicle batteries including VRLA (Lead Acid), GEL and AGM/EFB on 6V and 12V systems.

Model No:	Output:	Banks:	Output Charge (Each Bank):	Plug Type:	Power Supply Cable Length:	Cable & Clamp Length:
<b>D</b> MBC250	6/12V	2	5A	3-Pin	1.8m	2m
<b>E</b> MBC420	6/12V	4	2A	3-Pin	1.8m	2m

**F NEW**

12V

**F BCC2****12V Ring Terminal Battery Indicator Cable**

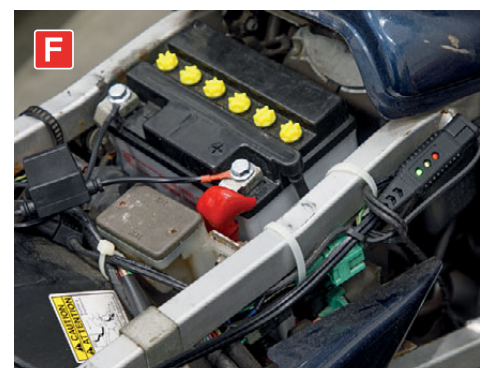
12V Ring terminal battery indicator cable. 3 LED coloured indicators showing battery status. SAE "quick" connector plug with protective cap end. 15A Replaceable in-line fuse. Cable length 70cm. For use with our AUTOCHARGE, MBC and SPI range of 12V chargers.

**G**

12V

**G BCC1****12V Battery Charger Extension Cable 3m SAE Connector Plugs**

3m Battery charger extension cable. SAE "quick" connector plugs with protective cap ends. Ideal for providing longer reach from charger to vehicle batteries. For use with our AUTOCHARGE, MBC and SPI range of 12V chargers.





**A-D SEE BELOW**  
**12V Automatic Battery Chargers & Maintainers**

Fully automatic 12V 3-stage battery chargers, designed for charging and maintaining a variety of vehicle batteries including VRLA (Lead Acid), GEL, AGM/EFB and Leisure on 12V systems. Fitted with auto-shut-off maintenance function. Zero volt battery charging, enabling recovery and charging of a completely discharged battery (providing any load removed from the rechargeable battery). Features battery desulphation repair function, reverse polarity, short circuit, over temperature, over voltage and overcharging protection. Easy-to-read LED indicators display power status and charging stages.

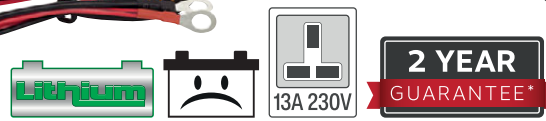


	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
Model No	SBC4	SBC6	SBC8	SBC15
Output:	12V	12V	12V	12V
Output Charge:	4A	6A	8A	15A
Battery Range:	40-80Ah	40-100Ah	40-120Ah	40-200Ah
Plug Type:	3-Pin	3-Pin	3-Pin	3-Pin
Power Supply Cable Length:	1m	1m	1m	1m
Cable & Clamp Length:	1m	1m	1m	1m
Supply:	230V	230V	230V	230V
IP Rating:	IP33	IP33	IP33	IP33



**E-I SEE BELOW**  
**Compact Auto Smart Chargers**

Dual voltage smart trickle chargers/maintainers ensure that the battery is kept fully charged and ready-to-use for extended periods of time. Clear, easy-to-read LED status lights on **E** & **F** indicate the current charging or 'float' mode. Digital display on models with 4A output charge and above indicates the percentage charging level and the output current of the charger. Heavy-duty case with simple controls. Designed for use with vehicle batteries including VRLA (Lead Acid), GEL, AGM/EFB, Leisure and Lithium (not **E**) on 6V, 12V and 24V systems. Features reverse polarity protection. Supplied with SAE "quick" connectors on leads and battery terminal eyelets (excluding **I**).



	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>I</b>
Model No:	AUTOCHARGE100HF	AUTOCHARGE200HF	AUTOCHARGE400HF	AUTOCHARGE650HF	AUTOCHARGE1200HF
Supply:	230V	230V	230V	230V	230V
Output:	6/12V	6/12V	6/12V	6/12V	12/24V
Output Charge:	1A	2A	4A	6.5A	12A
Battery Range:	0.8-14A	1.3-60A	0.8-120A	1.3-200A	1.3-400A
Plug Type:	3-Pin	3-Pin	3-Pin	3-Pin	3-Pin
Power Supply Cable Length:	n/a	1.5m	1.5m	1.5m	1.5m
Cable & Clamp Length:	1m	1m	1m	1m	1m
IP Rating:	IP20	IP65	IP65	IP65	IP20



**A-C SEE BELOW**

**Automatic Battery Chargers & Maintainers**

Fully automatic 7-stage battery chargers, designed for charging and maintaining a variety of vehicle batteries including VRLA (Lead Acid), GEL, AGM/EFB and Leisure on 6V, 12V and 24V systems with auto chemistry selection. Zero volt battery charging, enabling recovery and charging of a completely discharged battery. Reverse polarity, short circuit, over temperature and over charging protection on all three models, plus unique retractable hanging hook, and cable management system, which allows the clips to be stored neatly away when not in use.



**Integral Storage**  
Clever cable management system which allows the crocodile clips to be neatly stored away when not in use.

	<b>A</b>	<b>B</b>	<b>C</b>
<b>Model No:</b>	SPBC8	SPBC12	SPBC16
<b>Supply:</b>	230V	230V	230V
<b>Output:</b>	6/12/24V	6/12/24V	6/12/24V
<b>Output Charge:</b>	8A @ 6/12V (4A @ 24V)	12A @ 6/12V (6A @ 24V)	16A @ 6/12V (8A @ 24V)
<b>Battery Range:</b>	40-100Ah	40-160Ah	40-200Ah
<b>Plug Type:</b>	3-Pin	3-Pin	3-Pin
<b>Power Supply Cable Length:</b>	1.2m	1.2m	1.2m
<b>Cable &amp; Clamp Length:</b>	1.2m	1.2m	1.2m
<b>IP Rating:</b>	IP33	IP33	IP33

**D-E SEE BELOW**

**Fully Automatic Battery Chargers & Maintainers**

Fully automatic multi-cycle and multi-voltage chargers designed for a variety of batteries including VRLA (Lead Acid), GEL, AGM/EFB, Leisure and Lithium on 6V, 12V and 24V systems. Zero volt battery charging, enabling recovery and charging of a completely discharged battery. Additional battery support function. Features reverse polarity, short circuit, over temperature and over charging protection on both models.



	<b>D</b>	<b>E</b>
<b>Model No:</b>	SPBC30	SPBC40
<b>Supply:</b>	230V	230V
<b>Output:</b>	6/12/24V	6/12/24V
<b>Output Charge:</b>	30A @ 6/12V (16A @ 24V)	40A @ 6/12V (21A @ 24V)
<b>Battery Range:</b>	60-300Ah	80-400Ah
<b>Battery Support Mode:</b>	13.5V DC-30A	13.5V DC-40A
<b>Plug Type:</b>	3-Pin	3-Pin
<b>Power Supply Cable Length:</b>	1.8m	1.8m
<b>Cable &amp; Clamp Length:</b>	2m	2m
<b>IP Rating:</b>	IP20	IP20
<b>Dimensions:</b>	210 x 76 x 225mm	202 x 76 x 282mm





Suitable for all these vehicles:



**A-G SEE BELOW**  
**Intelligent Battery Chargers**

Fully automatic microprocessor controlled dual voltage battery chargers and maintainers, featuring patented Speed Charge technology. These models can charge the battery up to 3 times faster than conventional chargers without causing damage. Heavy-duty sturdy case with no-nonsense controls and LED status indicators. Designed for use with vehicle batteries including VRLA (Lead Acid), GEL, AGM/EFB and Leisure. Model No. SPI3S, also suitable for Lithium batteries. Fully automatic float mode ensures the battery is kept fully charged, maintained and ready-to-use.

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>
<b>Model No:</b>	SPHS	SPI2S	SPI3S	SPI6S	SPI10S	SPH5S	SPI1224S
<b>Output:</b>	6/12V	6/12V	12V	12V	12V	12V	12/24V
<b>Output Charge:</b>	1A	2A	3A	6A	10A	15A	15A/10A
<b>Battery Range:</b>	12-35Ah(12V)	12-35Ah(12V)	12-59Ah LiFePO4 3-50Ah	6-130Ah	10-230Ah	15-230Ah	40-230Ah
<b>Plug Type:</b>	3-Pin	3-Pin	3-Pin	3-Pin	3-Pin	3-Pin	3-Pin
<b>Power Supply Cable Length:</b>	2m	2m	2m	2m	2m	2m	2m
<b>Cable &amp; Clamp Length:</b>	2m	2m	2m	2m	2m	2m	2m
<b>Supply:</b>	230V	230V	230V	230V	230V	230V	230V
<b>IP Rating:</b>	IP54	IP54	IP64	IP20	IP20	IP20	IP20

**H NEW**



15A

6V/12V



**H SUPERBOOST150D**  
**6/12V 150A Starter/15A Automatic Battery Charger & Maintainer**

Automatic battery charger and starter, designed for charging, maintaining, and boosting a variety of VRLA (Lead Acid), GEL, AGM/EFB, Leisure and Lithium on 6V and 12V systems. Intuitive digital display and 150A peak engine start function, makes this unit ideal for every workshop. Features overcharge, short circuit, and reverse polarity protection. Dedicated charging programs with fully automated charging algorithms. Fast charge program for larger batteries. Automatic boost/engine start function once 12V mode is selected and battery voltage is over 4V. Portable design with carry handle and cable management system which allows the clips to be stored neatly away when not in use.

<b>Output:</b>	6/12V
<b>Output Charge:</b>	2A@6V, 2A(L)/15A(H)@12V (15A LiFePO4)
<b>Start Current:</b>	12V - 75A @ 7V (Peak 150A)
<b>Battery Range:</b>	30-300Ah
<b>Plug Type:</b>	3-Pin
<b>Power Supply Cable Length:</b>	1.3m
<b>Cable &amp; Clamp Length:</b>	1.2m
<b>Supply:</b>	230V
<b>Weight:</b>	4.43kg
<b>IP Rating:</b>	IP20



**A-F**

12V/24V



**A-F SEE BELOW**

**12/24V Battery Chargers**

Steel case with carry handle, these single phase chargers feature plenty of ventilation to help maintain low transformer temperatures. A large ammeter displays rate of charge and a dash-mounted fuse provides polarity protection in the event that clips are connected incorrectly. Rocker switches control variable output to the battery to maintain peak condition. Suitable for regular and low maintenance batteries.

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>
Model No:	CHARGE106	CHARGE107	CHARGE110	CHARGE112	CHARGE115	CHARGE124
Output:	12/24V	12/24V	12/24V	12/24V	12/24V	12/24V
Output Charge Peak(EN):	8A(6A)	11A(7A)	14A(10A)	16A(12A)	19A(15A)	28A(24A)
Battery Range:	10-95Ah	20-105Ah	20-120Ah	20-180Ah	20-250Ah	25-320Ah
Input Charge:	0.4A	0.7A	0.9A	0.9A	0.4A	0.3A
Charging Rates:	2	2	2	2	2	2
Supply:	230V	230V	230V	230V	230V	230V
Plug Type:	3-Pin	3-Pin	3-Pin	3-Pin	3-Pin	3-Pin
Power Supply Cable Length:	2m	2m	2m	2m	2m	2m
Cable & Clamp Length:	2m	2m	2m	2m	2m	2m
Polarity Protection:	Fuse (1x 15A)	Fuse (1x 15A)	Fuse (1x 20A)	Fuse (1x 30A)	Fuse (1x 30A)	Fuse (1x 40A)
Fuse:	SBF1550 (Pack of 50)	SBF1550 (Pack of 50)	SBF2050 (Pack of 50)	MF3010 (Pack of 10)	MF3010 (Pack of 10)	MF4010 (Pack of 10)

**G-J**

12V/24V



**G-J SEE BELOW**

**12/24V SuperBoost Starter/Chargers**

Combination units capable of both charging batteries and providing boost power to help start vehicles with flat batteries. Models feature easy-to-read ammeters and illuminated power switches. All models have dual output (12 and 24V) and circuitry is protected by a panel mounted fuse. Model No's SUPERBOOST140 and SUPERBOOST160 are suitable for fleet operators running cars and van derivatives. Model No's SUPERBOOST180 and SUPERBOOST200 are suitable for heavier garage use for engines up to 3L capacity. Built-in polarity protection.

	<b>G</b>	<b>H</b>	<b>I</b>	<b>J</b>
Model No:	SUPERBOOST140	SUPERBOOST160	SUPERBOOST180	SUPERBOOST200
Output:	12/24V	12/24V	12/24V	12/24V
Output Charge Peak(EN):	21A(14A)	30A(20A)	40A(25A)	45A(30A)
Output Start Peak(EN):	140A(80A)	160A(110A)	180A(120A)	200A(180A)
Battery Range:	15-240Ah	15-300Ah	20-400Ah	30-500Ah
Input Charge:	2.7A	3.5A	4.5A	5.4A
Input Start:	11A	12.5A	15.5A	19.5A
Charging Rates:	3	3	3	3
Supply:	230V	230V	230V - 16A Supply	230V - 16A Supply
Plug Type:	3-Pin	3-Pin	Bare Wire	Bare Wire
Power Supply Cable Length:	2m	2m	2m	2m
Cable & Clamp Length:	2m	2m	2m	2m
Polarity Protection:	Fuse (1x 15A)	Fuse (1x 80A)	Fuse (1x 80A)	Fuse (1x 110A)
Fuse:	START180.F20 (Pack of 20) START180.F (Single)	120/802260 (Pack of 20) 120/122351 (Single)	120/802260 (Pack of 20) 120/122351 (Single)	START360.F10 (Pack of 10) START360.F (Single)

**A-E SEE BELOW**  
**12/24V Starter/Chargers**

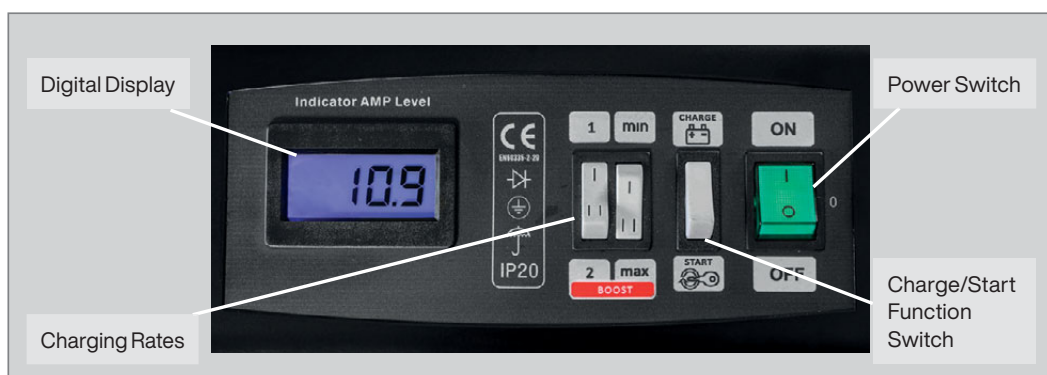
Heavy-duty starter/chargers for professional garages, workshops or bodyshops. The START range caters for all requirements from cars right up to light commercial vehicles. Designed for use with vehicle batteries including VRLA (Lead Acid) and GEL on 12V and 24V systems. Model No's START560, START660 and START800 feature a fast-charge timer device to enable rapid battery recovery with reduced risk of boiling the battery. All models have large wheels for easy mobility and feature analogue ammeters and switchable charge circuitry for accurate charge control.



	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
<b>Model No:</b>	START320	START420	START560	START660	START800
<b>Output:</b>	12/24V	12/24V	12/24V	12/24V	12/24V
<b>Output Charge Peak(EN):</b>	45A(30A)	60A(40A)	95A(65A)	100A(70A)	110A(75A)
<b>Output Start Peak(EN)*:</b>	320A(220A)	420A(280A)	560A(360A)	660A(400A)	800A(640A)
<b>Battery Range:</b>	30-500Ah	30-700Ah	50-1000Ah	50-1200Ah	20-1200Ah
<b>Input Charge:</b>	5A	6.5A	11.5A	12.5A	4A
<b>Input Start:</b>	20A	22A	44A	46A	28A
<b>Charging Rates:</b>	3	3	6	6	8
<b>Fast-Charge Timer:</b>	✗	✗	✓	✓	✓
<b>Supply:</b>	230V - 16A Supply	230V - 16A Supply	230V - 32A Supply	230V - 32A Supply	400V 3ph - 32A Supply
<b>Plug Type:</b>	Bare Wire	Bare Wire	Bare Wire	Bare Wire	Bare Wire
<b>Power Supply Cable Length:</b>	2m	2m	2m	2m	2m
<b>Cable &amp; Clamp Length:</b>	2.1m	2.1m	2.1m	2.1m	2.1m
<b>Polarity Protection:</b>	Fuse (1x 110A)	Fuse (1x 110A)	Fuse (2x 110A)	Fuse (2x 110A)	Fuse (3x 110A)
<b>Fuse:</b>	START360.F10 (Pack of 10) START360.F (Single)	START360.F10 (Pack of 10) START360.F (Single)	START360.F10 (Pack of 10) START360.F (Single)	START360.F10 (Pack of 10) START360.F (Single)	START360.F10 (Pack of 10) START360.F (Single)

\*Performance dependent on connection to an adequate, good clean electric supply.



**A-E SEE BELOW****12/24V SUPERSTART Starter/Chargers**

Heavy-duty professional starter/chargers, designed for use with vehicle batteries including VRLA (Lead Acid), GEL and Leisure on 12V and 24V systems. All SUPERSTART models are fitted with a heavy-duty transformer, flush mounted digital ammeter and variable charge rate controls. Where larger vehicles are concerned, we recommend Model No's SUPERSTART550 and SUPERSTART650, which feature a fast-charge timer device to enable rapid battery recovery with a reduced risk of boiling the battery. Quick-charge facility allows the maximum charge output to be utilised for up to one hour, after which it is automatically cut-off.

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
<b>Model No:</b>	SUPERSTART300	SUPERSTART400	SUPERSTART500	SUPERSTART550	SUPERSTART650
<b>Output:</b>	12/24V	12/24V	12/24V	12/24V	12/24V
<b>Output Charge Peak(EN):</b>	45A(30A)	60A(40A)	75A(50A)	90A(70A)	100A(80A)
<b>Output Start Peak(EN)*:</b>	300A(200A)	400A(300A)	500A(350A)	550A(400A)	650A(450A)
<b>Battery Range:</b>	30-350Ah	30-450Ah	30-550Ah	30-650Ah	30-750Ah
<b>Input Charge:</b>	1.5kW - 6.5A	1.5kW - 6.5A	1.5kW - 7A	2kW - 8.5A	2.3kW - 10A
<b>Input Start:</b>	5kW - 21A	6kW - 26A	10kW - 43A	10.5kW - 46A	11kW - 50A
<b>Charging Rates:</b>	4	4	4	5	5
<b>Fast-Charge Timer:</b>	✗	✗	✗	✓	✓
<b>Supply:</b>	230V - 16A Supply	230V - 16A Supply	230V - 32A Supply	230V - 32A Supply	230V - 32A Supply
<b>Plug Type:</b>	Bare Wire	Bare Wire	Bare Wire	Bare Wire	Bare Wire
<b>Power Supply Cable Length:</b>	1.7m	1.7m	1.7m	1.7m	1.7m
<b>Cable &amp; Clamp Length:</b>	2m	2m	2m	2m	2m
<b>Polarity Protection:</b>	Fuse (1 x 80A)	Fuse (2 x 80A)	Fuse (2 x 80A)	Fuse (3 x 100A)	Fuse (3 x 100A)
<b>Fuse:</b>	120/802260 (Pack of 20) 120/122351 (Single)	120/802260 (Pack of 20) 120/122351 (Single)	120/802260 (Pack of 20) 120/122351 (Single)	120/802260 (Pack of 20) 120/122351 (Single)	120/802260 (Pack of 20) 120/122351 (Single)

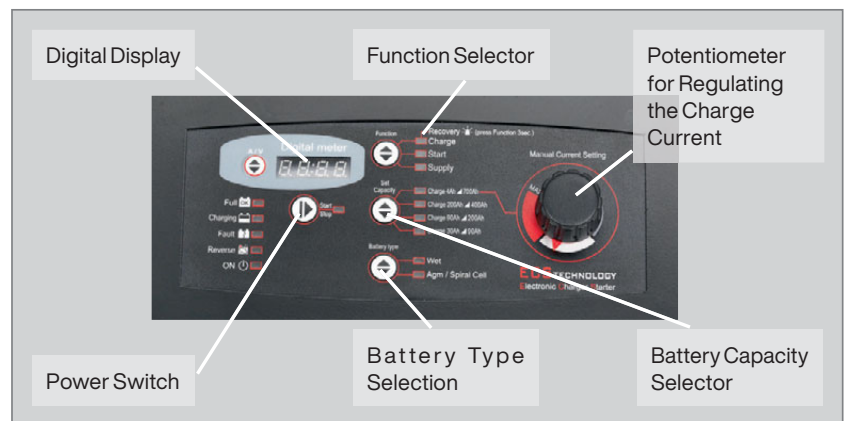
\*Performance dependent on connection to an adequate, good clean electric supply.



**A-D SEE BELOW**

**12/24V Electronic Starter/Chargers/Maintainers**

Fully electronic, microprocessor controlled smart battery starter/chargers designed to meet the requirements of modern battery technology. Designed for use with vehicle batteries including VRLA (Lead Acid), GEL, AGM/EFB and Leisure on 12V and 24V systems. Features up to ten analysis and charge phases, including trickle/maintenance. Instant visual check of battery condition, charge current, voltage and charging rate via LED read-out. Stabilised charging current allows improved charging efficiency and reduced charging times using ECS (Electronic Control Systems) technology. Includes circuitry to provide surge and spike protection during charging and starting, preventing damage to vital systems such as ABS, airbag sensors, ignition and music systems. Features power supply mode, providing support for the battery to prevent it from being drained during prolonged electronic diagnostic checks and software updates.



	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
<b>Model No:</b>	ECS300	ECS350	ECS400	ECS650
<b>Output:</b>	12/24V	12/24V	12/24V	12/24V
<b>Output Charge Peak(EN):</b>	45A(30A)	60A(40A)	75A(50A)	100A(70A)
<b>Output Start Peak(EN)*:</b>	300A(200A)	350A(250A)	400A(300A)	650A(450A)
<b>Battery Range:</b>	4-350Ah	4-450Ah	4-550Ah	4-700Ah
<b>Input Charge:</b>	1kW - 4A	1.1kW - 5A	1.5kW - 6.5A	2kW - 8.5A
<b>Input Start:</b>	5kW - 21A	6kW - 26A	10kW - 43A	12kW - 52A
<b>Charging Rates:</b>	3 x Preset + 1 x Variable to Maximum Current	3 x Preset + 1 x Variable to Maximum Current	3 x Preset + 1 x Variable to Maximum Current	3 x Preset + 1 x Variable to Maximum Current
<b>Supply:</b>	230V - 16A Supply	230V - 16A Supply	230V - 32A Supply	230V - 32A Supply
<b>Plug Type:</b>	Bare Wire	Bare Wire	Bare Wire	Bare Wire
<b>Power Supply Cable Length:</b>	1.6m	1.6m	1.6m	1.6m
<b>Cable &amp; Clamp Length:</b>	2m	2m	2m	2m
<b>BSU Support:</b>	20A - 13.5V	25A - 13.5V	30A - 13.5V	40A - 13.5V
<b>Polarity Protection:</b>	Fuse (1 x 80A)	Fuse (2 x 80A)	Fuse (2 x 100A)	Fuse (3 x 100A)
<b>Fuse:</b>	120/802260 (Pack of 20) 120/122351 (Single)	120/802260 (Pack of 20) 120/122351 (Single)	120/802131 (Pack of 20) 120/122452 (Single)	120/802131 (Pack of 20) 120/122452 (Single)

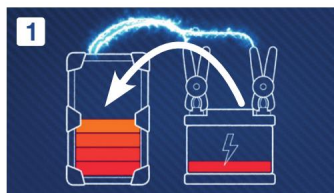
\*Performance dependent on connection to an adequate, good clean electric supply.



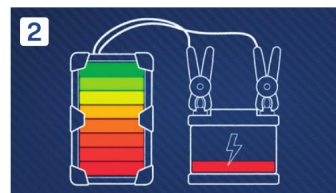
# ELECTRO START

## BATTERYLESS STARTING

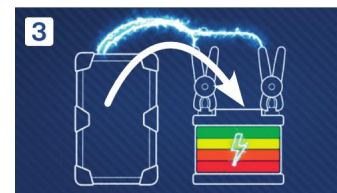
- ✓ Small enough to fit in glove box.
- ✓ Lightweight.
- ✓ No internal battery means no storage or maintenance issues.
- ✓ No need to keep charged.
- ✓ Patented technology.



E/START draws power from flat battery.



E/START is fully charged in a matter of minutes.



E/START pushes power back to the battery to start vehicle.

2 YEAR GUARANTEE\*

PATENTED TECHNOLOGY



A-C SEE BELOW

### ElectroStart® Batteryless Jump Starters

Vehicle jump starting made easy with innovative technology, which unlike traditional boosters does not require an internal battery. Simply connect to a flat vehicle battery and the unit will draw power from it and energise itself fully in a matter of minutes. It then pushes full power safely back through the starting system, jump starting the vehicle. If the vehicle battery is faulty or is holding less than 5 volts the ElectroStart® can be pre-charged via another vehicle's battery, a Micro USB charging cable (not included) or the 12V accessory lead. No internal battery means no storage issues. Compact and lightweight for easier handling and storage, yet still delivers the same result as heavy, bulky, lead acid battery equivalents. Ideal for both professional mechanics and home use.



### D E/START2A 2A 15V ElectroStart® Smart Charger Adaptor

Dual purpose smart charger for use with our range of E/START digital models. Will fully charge the unit within 5 minutes. Converts any compatible E/START unit into a 12V battery charger.

	A	B	C
Model No:	E/START800	E/START1100	E/START1600
Output:	12V	12V	12V
Output Start Peak(EN):	800A(400A)	1100A(550A)	1600A(800A)

Output:	15V/2A
Supply:	230V
Applications:	E/START800, E/START1100, E/START1600



**A-C SEE BELOW**

**RoadStart® Lithium Jump Starter Power Packs**

Easily fit in a glove box or backpack and benefits from being compact and lightweight. Powered by lithium-ion technology and fully protected against short circuit, overload and reverse polarity. USB ports (see table below) for charging electronic devices and integral LED flashlight. Waterproof to IP66 or IP67, depending on model.



**D-F SEE BELOW**

**Lithium Jump Starter Power Packs**

All units are powered by lithium-ion technology and fully protected against reverse charging and overload. Easily fit in a glove box or backpack and benefit from being compact, lightweight units which provide high amperage output. Lithium-ion batteries have numerous advantages over lead acid, including a flat discharge curve. This ensures a greater and extended performance and holds the charge for up to five times longer with high energy density levels giving more battery power per gram. Includes an integral worklight for use at night. All units fitted with two USB outlets, which can also supply several full charges for smartphones or one full charge for your tablet/laptop.



	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>
<b>Model No:</b>	RS600	RS800	RS1200	SL65S	SL67S	SL69S
<b>Capacity:</b>	7.2Ah @ 3.7V or 10Ah @ 3.7V or 2.5Ah @ 14.8V	16Ah @ 3.7V or 4Ah @ 14.8V	8Ah @ 3.2V, 2Ah @ 12.8V	10Ah @ 3.2V, 2.5Ah @ 12.8V	15Ah @ 3.2V, 3.75Ah @ 12.8V	
<b>Voltage:</b>	12V	12V	12V	12V	12V	12V
<b>Auxiliary Output:</b>	USB (x1) - 5V/2.1A	USB (x1) - 5V/2.1A	USB (x2) both - 5V/3A, 9V/2A, 12V/1.5A	USB (x2) - 5V/2.1A, 5V/1A	USB (x2) - 5V/2.4A, 5V/Quickcharge 3.0	USB (x2) - 5V/2.4A, 5V/Quickcharge 3.0
<b>Cable &amp; Clamp Length:</b>	385mm	385mm	385mm	430mm	440mm	440mm
<b>Maximum Starting Capacity:</b>	4L Petrol/2.5L Diesel	6L Petrol/4L Diesel	8L Petrol/6L Diesel	2L Petrol/1.6L Diesel	4L Petrol/2L Diesel	6L Petrol/3L Diesel
<b>Maximum Current:</b>	600A Peak, 300A Cranking	800A Peak, 400A Cranking	1200A Peak, 600A Cranking	600A Peak, 300A Cranking	800A Peak, 400A Cranking	1000A Peak, 500A Cranking
<b>Weight:</b>	0.36kg	0.45kg	0.70kg	0.74kg	0.59kg	0.77kg
<b>Size (W x D x H):</b>	85 x 27 x 140mm	88 x 33 x 158mm	100 x 45 x 185mm	81 x 26 x 128mm	84 x 34 x 173mm	95 x 40 x 185mm



RoadStart® Emergency Jump Starters

These devices can be carried as easily as a briefcase, yet deliver enough power to start up to 30 vehicles, dependent on specification and size of engine. The strength of these products lies in the choice and development of the integral battery. The batteries are selected for their cyclic efficiency - their ability to accept, store and release charge time after time and our battery program is among the best on the market.

RoadStart® units may also be used to power 12V DC items such as lighting or tools, using the integral vehicle accessory socket. The RoadStart® units can also be used to retain the memory codes on car radios and alarms whilst the main battery is disconnected.

**A** 900 Peak Amps 12V

Model No. RS131

**B** 900 Peak Amps Integral Compressor 12V 60psi

Model No. RS132 features an integral air compressor with pressure gauge.

**C** 900 Peak Amps 12V

Model No. RS1312HV

**D** 900 Peak Amps Integral Compressor 12V 60psi

Model No. RS1322HV features an integral air compressor with pressure gauge.

**A-D SEE BELOW**

**900A 12V RoadStart® Emergency Jump Starters**

Composite case with moulded rubber protection, integral battery cable storage and carry handle. LED Battery condition, polarity check, with audible warning if polarity is reversed, and charge indicators. Features independent on/off switch which allows the positive clamp to be connected without the risk of sparking and an integral LED worklight for use at night. Model No's RS132 and RS1322HV feature integral air compressor with pressure gauge for accurately topping/pumping up tyres. Fitted with two 12V power sockets that will accept any 12V device fitted with a vehicle accessory socket plug and a 5V/2.1A USB outlet for phones and tablets. Supplied with mains charger.

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
Model No:	RS131	RS132	RS1312HV	RS1322HV
Cold Cranking Amps:	400A	400A	400A	400A
Peak Amps:	900A	900A	900A	900A
Voltage:	12V	12V	12V	12V
Auxiliary Output:	1 x USB - 5V/1A, 2 x 12V Port	1 x USB - 5V/1A, 2 x 12V Port	1 x USB - 5V/1A, 2 x 12V Port	1 x USB - 5V/1A, 2 x 12V Port
Cable & Clamp Length:	720mm	720mm	720mm	725mm
Integral Air Compressor:	✗	✓	✗	✓
Maximum Pressure:	n/a	60psi	n/a	60psi
Weight:	6.60kg	6.75kg	6.60kg	6.75kg





**A RS1**  
**1000A 12V RoadStart®  
 Emergency Jump Starter**  
 Composite case with integral battery clip storage and carry handle. LED Battery condition and charge indicators. Test cycle button gives true battery indication. 230V Charger with automatic power cut-off prevents damage to battery whilst charging from the mains. Fitted with 12V power socket that will accept any 12V device with a vehicle accessory socket plug. Supplied with mains charger.

**B RS102**  
**1600A 12V RoadStart®  
 Emergency Jump Starter**  
 Composite case with integral battery clip storage hoods and carry handle. LED Battery condition and charge indicators. Test cycle button gives true battery indication. 230V Charger with automatic power cut-off prevents damage to battery whilst charging from the mains. Fitted with 12V power socket that will accept any 12V device with a vehicle accessory socket plug. Supplied with mains charger.

**C RS125**  
**3000/1500A 12V/24V  
 RoadStart® Emergency Jump Starter**  
 Composite case with battery clip storage lugs and carry handle. Easy-to-read, colour-coded analogue gauge measures battery condition and charge indicator. Audible warning system for polarity protection. Positive cable fitted with protection against reverse charging from the vehicle. Test cycle button gives true battery indication. 230V Charger with automatic power cut-off prevents damage to battery whilst charging from the mains. Fitted with a power socket that will accept any 12V device with a vehicle accessory socket plug. Supplied with mains charger.



**D RS103**  
**3200A 12V RoadStart®  
 Emergency Jump Starter**  
 Composite case with integral battery clip storage and carry handle. Suitable for starting vehicles with 8-cylinder petrol engines up to 5L and 6-cylinder diesel engines up to 3.5L. Two batteries connected in parallel give high peak and cranking currents. LED Battery condition indicators. Fitted with 12V power socket that will accept any 12V device with a vehicle accessory socket plug. Supplied with mains charger.

**E RS105**  
**3200/1600A 12V/24V  
 RoadStart® Emergency Jump Starter**  
 Composite case with integral battery clip storage and carry handle. Two batteries, connected in either parallel or series to suit the output voltage, give high peak and cranking currents. Fitted with low voltage switch for use when on 24V system recharge, connecting unit to battery producing less than 1V. LED Battery condition indicators. Test button gives indication of battery condition. Fitted with 12V power socket that will accept any 12V device with a vehicle accessory socket plug. Supplied with mains charger.



	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
<b>Model No:</b>	RS1	RS102	RS125	RS103	RS105
<b>Cold Cranking Amps:</b>	300A	600A	12V-1200A, 24V-600A	1000A	12V-1000A, 24V-500A
<b>Peak Amps:</b>	1000A	1600A	12V-3000A, 24V-1500A	3200A	12V-3200A, 24V-1600A
<b>Voltage:</b>	12V	12V	12V or 24V Switchable	12V	12V or 24V Switchable
<b>Auxiliary Output:</b>	12V	12V	12V	12V	12V
<b>Cable &amp; Clamp Length:</b>	0.5m	1m	1m	1.8m	1.8m
<b>Weight:</b>	7.68kg	9kg	15kg	17kg	18.2kg



**F RS10AUA**  
**15V 1A Universal Adaptor**  
 Universal adaptor 1A 15V 15W Max.



**A**



**12V/24V**  
**1200 Peak Amps**  
**Lithium RECHARGEABLE**  
**PORTABLE • USB • CHARGING DEVICE**

**3.5L** **5.0L** **3.0L**

12V Ratings only      24V Ratings only

**A SL32S**  
**1200/600A 12/24V Jump Starter Power Pack Lithium-ion Phosphate (LiFePo4)**  
Fully protected against reverse charging and overload. Compact, lightweight unit that also provides high amperage output. Includes an integral 3W worklight for use at night. Capable of supplying up to ten full charges for smartphones and MP3 players or one full charge for your tablet/computer. Includes a 12V port to be used with accessory socket adaptor supplied and three mobile phone or tablet charging cables. The unit can act as a memory saver during vehicle diagnostics (also requires Model No. VS2073, for details see page 468).

<b>Starting Current:</b>	12V-600A, 24V-300A
<b>Voltage:</b>	12V or 24V Switchable
<b>Auxiliary Output:</b>	USB (5V/1A & 5V/2A), 12V Port
<b>Cable &amp; Clamp Length:</b>	565mm Cable (Clamp-135mm), USB Cable: 227mm
<b>Maximum Starting Capacity:</b>	12V; 5L Petrol/3.5L Diesel, 24V; 3L
<b>Peak Amps:</b>	12V-1200A, 24V-600A
<b>Light Output:</b>	3W
<b>Weight:</b>	2.7kg
<b>Size (W x D x H):</b>	292 x 79 x 233mm

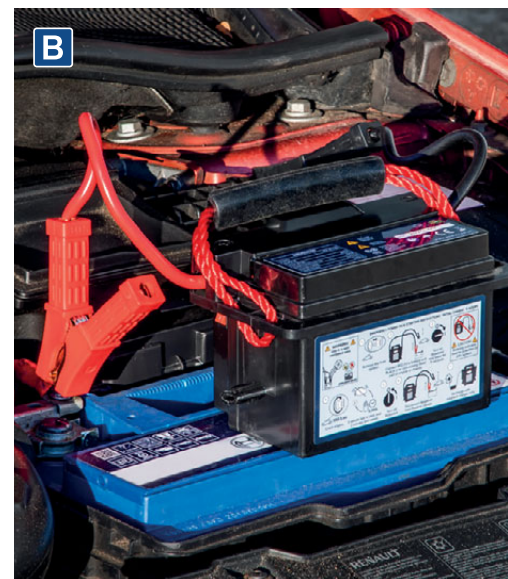


**B 12V** **900 Peak Amps**      **C 12V** **1400 Peak Amps**




**PORTABLE • USB • CHARGING DEVICE**

**1.6L** **2.0L**      **2.5L** **3.0L**



**B-C SEE BELOW**

**RoadStart® Compact Jump Starters**

All units feature high output sealed AGM battery with clamp storage and rope carry handle. Suitable for starting petrol and diesel engines. Front panel includes an integral LED worklight. Reverse polarity and short circuit protection with audible warning. Mains charger with automatic power cut-off prevents damage to battery whilst charging. Inbuilt MOSFET circuit protection. Single 5V 2.4A USB output. Supplied with mains charger. Durable case protects units when stored.

	<b>B</b>	<b>C</b>
<b>Model No:</b>	RS1C	RS102C
<b>Cold Cranking Amps:</b>	130A	280A
<b>Peak Amps:</b>	900A	1400A
<b>Voltage:</b>	12V	12V
<b>Auxiliary Output:</b>	USB - 5V/2.4A	USB - 5V/2.4A
<b>Cable &amp; Clamp Length:</b>	300mm	300mm
<b>Weight:</b>	2.33kg	3.5kg

**B-C**



Durable case protects units when stored.



**A** **12V** **1100 Peak Amps**



**PORTABLE • USB • CHARGING • DEVICE**




**A RS1B**  
**1100A 12V RoadStart® Emergency Jump Starter**  
 Composite case with integral battery clamp storage and carry handle. Suitable for starting vehicles with 4-cylinder petrol or diesel engines up to 2L. Front panel displays internal battery charge level and includes an integral LED worklight. Reverse polarity and short circuit protection with audible warning. Mains charger with automatic power cut-off prevents damage to battery whilst charging. Inbuilt MOSFET circuit protection. Fitted with two 12V power sockets that will accept any 12V device with a vehicle accessory socket plug and one 5V 2.4A USB output.



**B** **12V** **1500 Peak Amps**



**PORTABLE • USB • CHARGING • DEVICE**




**B RS102B**  
**1500A 12V RoadStart® Emergency Jump Starter**  
 Composite case with integral battery clamp storage and carry handle. Suitable for starting vehicles with 6-cylinder petrol engines up to 3.5L and 4-cylinder diesel engines up to 3L. Front panel displays internal battery charge level and includes an integral LED worklight. Reverse polarity and short circuit protection with audible warning. Mains charger with automatic power cut-off prevents damage to battery whilst charging. Inbuilt MOSFET circuit protection. Fitted with two 12V power sockets that will accept any 12V device with a vehicle accessory socket plug and one 5V 2.4A USB output.

**C** **12V** **2700 Peak Amps**



**PORTABLE • USB • CHARGING • DEVICE**




**C RS103B**  
**2700A 12V RoadStart® Emergency Jump Starter**  
 Composite case with integral battery clamp storage and carry handle. Suitable for starting vehicles with 8-cylinder petrol engines up to 5L and 6-cylinder diesel engines up to 3.5L. Front panel displays internal battery charge level and includes an integral LED worklight. Reverse polarity and short circuit protection with audible warning. Mains charger with automatic power cut-off prevents damage to battery whilst charging. Inbuilt MOSFET circuit protection. Fitted with two 12V power sockets that will accept any 12V device with a vehicle accessory socket plug and one 5V 2.4A USB output.

**D** **12V/24V** **3100 Peak Amps**



**PORTABLE • USB • CHARGING • DEVICE**



24V Ratings only




12V Ratings only

**D RS105B**  
**3100/1550A 12/24V RoadStart® Emergency Jump Starter**  
 Composite case with integral battery clamp storage and carry handle. Suitable for starting 12V vehicles with 8-cylinder petrol engines up to 6L and 8-cylinder diesel engines up to 4.8L. Also suitable for starting 24V vehicles with 6-cylinder diesel engines up to 3L. Front panel displays internal battery charge level and includes an integral LED worklight. Reverse polarity and short circuit protection with audible warning. Mains charger with automatic power cut-off prevents damage to battery whilst charging. Inbuilt MOSFET circuit protection. Fitted with two 12V power sockets that will accept any 12V device with a vehicle accessory socket plug.

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
<b>Model No:</b>	RS1B	RS102B	RS103B	RS105B
<b>Cold Cranking Amps:</b>	280A	300A	560A	12V/24V - 600A/300A
<b>Peak Amps:</b>	1100A	1500A	2700A	12V/24V - 3100A/1550A
<b>Voltage:</b>	12V	12V	12V	12V/24V
<b>Auxiliary Output:</b>	USB - 5V/2.4A, 2 x 12V Port	USB - 5V/2.4A, 2 x 12V Port	USB - 5V/2.4A, 2 x 12V Port	2 x 12V Port
<b>Cable &amp; Clamp Length:</b>	0.6m	0.6m	0.7m	0.7m
<b>Weight:</b>	6.7kg	7.8kg	12.3kg	14.5kg





**175hp**  
Start Power    **1700**  
Peak Amps



**250hp**  
Start Power    **2300**  
Peak Amps



**500hp**  
Start Power    **4600**  
Peak Amps

**A PBI1812S**  
**1700A 12V RoadStart® Emergency Jump Starter - DEKRA Approved**

Professional grade, high output AGM battery specially formulated to jump start vehicles. Fully sealed battery enables the unit to be stored in any position. Features a lightweight, high-impact casing, which is durable and corrosion proof for easy portability. Battery status LEDs indicate to the user when the battery is at full power, 75% charge, 50% charge or less and when the unit needs to be recharged. A fusible link integrated in the output cable gives increased protection to the unit, while enabling fuse change without disassembly. On/off switch for safety and control. Features 12V accessory outlet including overload and short circuit protection.



	<b>A</b>	<b>B</b>	<b>C</b>
<b>Model No:</b>	PBI1812S	PBI2212GS	PBI424GS
<b>Cold Cranking Amps:</b>	323A	900A	1800/900A
<b>Peak Amps:</b>	1700A	2300A	4600A(12V)/2300A(24V)
<b>Voltage:</b>	12V	12V	12/24V
<b>Auxiliary Output:</b>	12V	1x 12V, 1x USB - 2.1A	1x 12V, 1x USB - 2.1A
<b>Cable &amp; Clamp Length:</b>	0.6m	1.6m	1.7m
<b>Weight:</b>	7.2kg	9.5kg	17.5kg

**B-C SEE BELOW**  
**RoadStart® Emergency Jump Starters DEKRA Approved**

Manufactured with professional grade, high performance AGM battery, produced in the USA and specially formulated to jump start vehicles. Supplied with automatic maintenance chargers that feature patented microprocessor controlled speed charging, with thermal runaway protection. This means that unlike other booster packs, the unit can be left safely on charge continuously ensuring it is always ready for use. Fitted with an isolating rotary on/off switch and features a two-function digital display showing the internal battery level and the vehicle battery voltage. Fitted with a 12V accessory socket and a single USB port. The heavy-duty clamps are manufactured with a braided link between each jaw for maximum power transmission, whilst also being curved allowing easy access to awkward or hard-to-reach battery terminals. Audible warning system (AWS) to advise operator if the unit has been turned on for too long without being connected to a battery and for reverse polarity.



**D NEW**  
**12V/24V**  
**1500hp**  
Start Power  
**6400**  
Peak Amps  
**2 YEAR**  
GUARANTEE\*  
**Premier**

**D PRS6400**  
**Premier 12/24V 6400A Wheeled RoadStart® Jump Starter**

High performance 66Ah AGM battery, specially formulated to jump-start up to 8-cylinder engines, 9.0L diesel and 12.0L petrol. Highly durable casing and totally portable thanks to a retractable handle and puncture proof wheels. Easy-to-read digital voltmeter. 0/12/24V Rotary switch for spark-free connection. Supplied with heavy-duty brass clamps with inbuilt short circuit protection fuse (in the + clamp). Reverse polarity alarm, both visual and audible. 12V Fused output socket can be used as a memory saver, as well as to power accessories such as mini compressors. Supplied with an automatic 12/24V 7A smart charger and maintainer. Made in Switzerland.

<b>Cold Cranking Amps:</b>	2500A(12V)/1250A(24V)
<b>Peak Amps:</b>	6400A(12V)/3200A(24V)
<b>Auxiliary Output:</b>	1x 12V
<b>Cable &amp; Clamp Length:</b>	1.7m
<b>Weight:</b>	33.4kg (excluding charger unit)

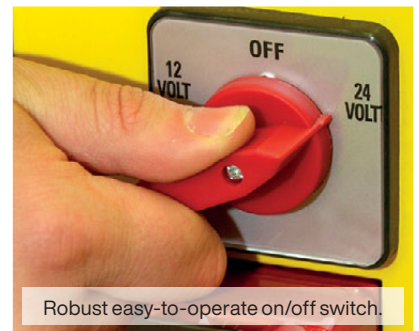




Professional 'Anderson' plug connector.



Heavy-duty clamps with 35mm<sup>2</sup> 100% copper cable.



Robust easy-to-operate on/off switch.



Battery level indicator button.

**A-C SEE BELOW**

**PowerStart Emergency Jump Starters**

Among the heaviest duty jump starters currently available, the PowerStart range is designed for the professional technician. Housed in heavy steel cases, these units are rugged enough for the toughest environments and can be used on a wide variety of vehicle applications: Trucks, Buses, Coaches, Construction Machines and Vehicles, Towing and Rescue Vehicles, Recovery Vehicles, Airfield Support Vehicles, Light Aircraft, Marine, Farming and Forestry Vehicles. Designed and made in the EU, these jump starters offer serious performance for the professional user.

	<b>A</b>	<b>B</b>	<b>C</b>
<b>Model No:</b>	<b>POWERSTART500</b>	<b>POWERSTART900</b>	<b>PSTART1000HD</b>
<b>Output Voltage:</b>	12/24V	12/24V	12/24V
<b>Maximum Engine Size:</b>	500hp	900hp	1000hp
<b>Peak Amps 12V:</b>	4400A	5000A	7000A
<b>Peak Amps 24V:</b>	2200A	2500A	3500A
<b>Cranking Current (20°C 5 Secs) 12V:</b>	1700A	1900A	1900A
<b>Cranking Current (20°C 5 Secs) 24V:</b>	850A	950A	950A
<b>Cold Cranking Current (-18°C 30secs) 12V:</b>	700A	760A	800A
<b>Cold Cranking Current (-18°C 30secs) 24V:</b>	350A	380A	400A
<b>Cable Section:</b>	35mm <sup>2</sup>	35mm <sup>2</sup>	35mm <sup>2</sup>
<b>Cable &amp; Clamp Length:</b>	2m	2m	2m
<b>Weight:</b>	23.6kg	30.2kg	29.4kg



A

Copper/Aluminium



A SEE BELOW

**Booster Cables**

PVC Sheathed copper coated aluminium cables gives maximum power transfer yet remain flexible. Resistant to oil, grease and most acids. Insulated and oversized clamps with strong return springs help reduce the heating effect of power transfer. Supplied in reusable nylon bag with operating guidelines.

Model No:	Cable Section:	Length:	Capacity:
BC1630	16mm <sup>2</sup>	3m	220A
BC2535	25mm <sup>2</sup>	3.5m	350A
BC3545	35mm <sup>2</sup>	4.5m	480A

B BC4050HD

**600A Booster Cables - 40mm<sup>2</sup> x 5m**

PVC Sheathed copper covered aluminium cable for minimum heating and maximum power transfer. Resistant to grease, oil and most acids. Heavy-duty clamps fitted with heavy insulating sleeves and strong clamp spring. Suitable for cars, light commercial, commercial, PSV, marine and agricultural applications. Supplied in tough storage case with operating guidelines.

Cable Section:	40mm <sup>2</sup>
Length:	5m
Capacity:	600A

C BC/25/3.5

**600A Copper Booster Cables - 25mm<sup>2</sup> x 3.5m**

Quality PVC sheathed copper welding cable gives maximum power transfer yet remains flexible. Resistant to oil, grease and most acids. Insulated and oversized clamps with strong return springs help reduce the heating effect of power transfer. Supplied in reusable bag with operating guidelines.

Cable Section:	25mm <sup>2</sup>
Length:	3.5m
Capacity:	600A

D BC25/5/HD

**Heavy-Duty 600A Copper Booster Cables - 25mm<sup>2</sup> x 5m**

Large, oversized clamps help prevent power loss through the heavy-duty 25mm<sup>2</sup> stranded copper cable. Cables resistant to grease, oil and most acids. Suitable for cars, light commercial, commercial, PSV, marine and agricultural applications. Suitable for professional users, with a proven reputation for quality and value.

Cable Section:	25mm <sup>2</sup>
Length:	5m
Capacity:	600A

E SEE BELOW

**Extra-Heavy-Duty Copper Booster Cables**

PVC Sheathed copper welding cables for minimum heating and maximum power transfer. Resistant to grease, oil and most acids. Extra-heavy-duty brass clamps fitted with heavy insulating sleeves and strong clamp spring. Suitable for cars, light commercial, commercial, PSV, marine and agricultural applications. Patented clamps.

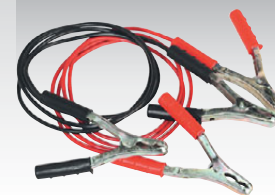
Model No:	Cable Section:	Length:	Capacity:
SBC/35/5/EHD	35mm <sup>2</sup>	5m	750A
SBC50/6.5/EHD	50mm <sup>2</sup>	6.5m	900A

B

**HEAVY DUTY**

Copper/Aluminium

C



Copper Cable

D



Copper Cable

**HEAVY DUTY**

E

Brass  
Clamps**EXTRA  
HEAVY  
DUTY**

Copper Cable



**A SEE BELOW**

**Auto Electronics Protection Devices**

Housed in tough composite case, these units are designed to prevent damaging voltage spikes and surges reaching delicate vehicle electronics. Clips across the battery terminals and permits processes such as welding and plasma cutting to be carried out without the danger of damaging the vehicle's onboard electronics. Fitting recommended before any routine workshop maintenance. Shows green light when operating correctly (Model No. PROSAF/12 only) and red light for fault.

Model No:	System Voltage:
PROSAF/12	12V
PROSAF/24	24V

**D SEE BELOW**

**ProJump Booster Cables with Electronics Protection**

Surge and spike protection, fitted in-line with heavy-duty booster cables. Clever traffic-light LEDs show when protection is in place and it is safe to proceed jump-starting.

Model No:	PROJ/12	PROJ/12/24
Voltage/Capacity:	12V/400A	12 & 24V/450A
Cable Section:	20mm <sup>2</sup>	25mm <sup>2</sup>
Length:	5m	7m



**B-C SEE BELOW**

**Booster Cables with Electronics Protection**

PVC sheathed copper coated aluminium cables give maximum power transfer yet remain flexible. Resistant to oil, grease and most acids. Insulated heavy-duty clamps reduce the heating effect of power transfer. Features an LED display unit which shows the battery voltage and includes a reverse polarity indicator and alarm. In-line surge protector helps to prevent electrical spikes occurring. Additional features also include alternator charge check and battery condition check. Supplied in a storage case.

	<b>B</b>	<b>C</b>
Model No:	BC16403SR	BC25635SR
Cable Section:	16mm <sup>2</sup>	25mm <sup>2</sup>
Length:	3m	3.5m
Capacity:	400A	600A



**TRAFFIC LIGHT SEQUENCE FOR PROJUMP BOOSTER CABLES**

<p><b>Red LED</b> STOP and disconnect clamps - polarity is reversed.</p>	<p><b>Amber LED</b> Donor Battery is not in good condition and permanent damage may occur if you attempt to start a vehicle. Stop and change donor battery.</p>	<p><b>Green LED</b> Clamps correctly connected. Battery being tested is in good condition. Proceed.</p>
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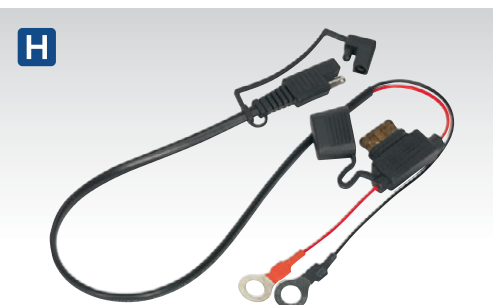


**E-G SEE BELOW**  
**Solar Power Panels**

Amorphous solar panels convert daylight directly into 12V electricity. Suitable for maintaining charge in a wide range of batteries and power packs. Ideal for batteries stored in boats and caravans and for batteries in vehicles in long-term storage. IP44 Rating (non-waterproof). For use behind car windscreen or other protection. Supplied with battery clips and vehicle accessory socket plug (only suitable for vehicles with "permanent live" accessory socket).

Model No's SPP01 & SPP02 supplied with suction pad fixings.

	<b>E</b>	<b>F</b>	<b>G</b>
Model No:	SPP01	SPP02	SPP03
Output:	12V/1.5W	12V/2.4W	12V/4.8W
Dimensions:	350 x 125mm	370 x 210mm	440 x 345mm



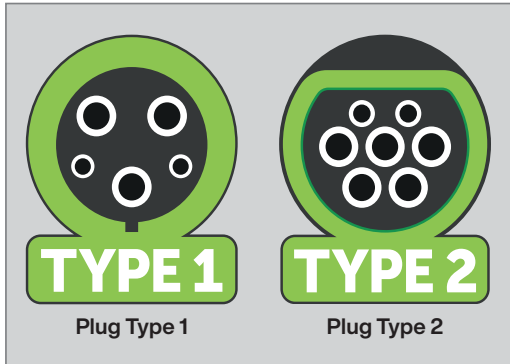
**H SPP01.A**

**Watertight Hardwired Terminal Connector for SPP01, SPP02 & SPP03**

A battery terminal connection lead with in-line fuse unit and weatherproof cap to offer protection from water ingress when the connector is not in use. Can be left on the vehicle and simply connected to Model No's SPP01, SPP02 or SPP03 when required.

Length:	570mm
Fuse:	7.5A

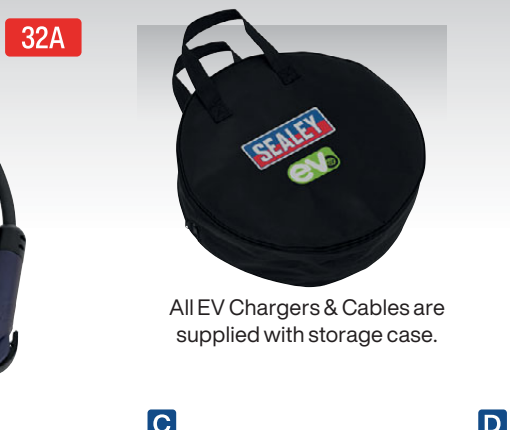
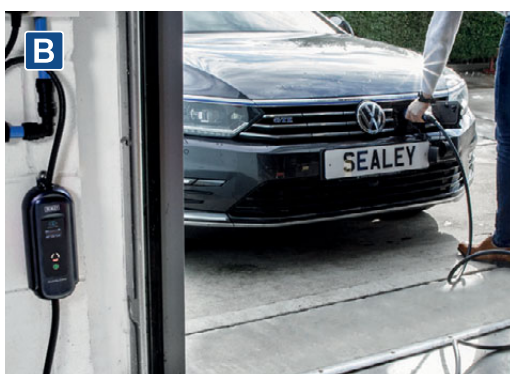




**A-B SEE RIGHT**  
**5m Electric Vehicle Portable Chargers & Cables**

Portable Mode-2 chargers are fitted with BS approved 13A plug so they can be used with any standard 13A socket. Delay timing function enables users to program delayed start time to benefit from off-peak electricity tariffs. The intuitive LED offers users fault codes, charging time, power and temperature displays. Supplied with storage case.

	<b>A</b>	<b>B</b>
<b>Model No:</b>	EVPC1	EVPC2
<b>Current:</b>	10A	10A
<b>Plug Type:</b>	Type 1	Type 2
<b>Electrical Class:</b>	1ph	1ph
<b>Length:</b>	5m	5m



**C-D SEE RIGHT**  
**5m Type 1 to Type 2 EV Charger Cables**

The Mode-3 charging cables simply plug into any public or home EV charging point. Supplied with storage case.

	<b>C</b>	<b>D</b>
<b>Model No:</b>	EVCC1216	EVCC1232
<b>Current:</b>	16A	32A
<b>Plug Type:</b>	Type 1 to Type 2	Type 1 to Type 2
<b>Electrical Class:</b>	1ph	1ph
<b>Length:</b>	5m	5m

All EV Chargers & Cables are supplied with storage case.



**E-G SEE RIGHT**  
**5m Type 2 to Type 2 EV Charging Cables**

The Mode-3 charging cables simply plug into any public or home EV charging point. Supplied with storage case.

	<b>E</b>	<b>F</b>	<b>G</b>
<b>Model No:</b>	EVCC2216	EVCC2232	EVCC22323
<b>Current:</b>	16A	32A	32A
<b>Plug Type:</b>	Type 2 to Type 2	Type 2 to Type 2	Type 2 to Type 2
<b>Electrical Class:</b>	1ph	1ph	3ph
<b>Length:</b>	5m	5m	5m