

CX-Vehicle Power Charger

DESIGNED FOR MOBILE APPLICATIONS



The CX-Vehicle Power Charger is our fourth generation of charging system and has been designed from the outset by our partners to provide a fully featured power supply to directly integrate into your vehicle — whatever the load.

Power charging is the ability to simultaneously act as a battery charger and power supply to power any connected loads without gassing the battery. Thus providing opportunity charging, long term charging and the safe and reliable operation of electrical on-board equipment.

The CX-V Power Charger is extremely powerful and compact, making it ideal for on-board use.

80A output from such a small package is achieved through high efficiency using the very latest electronic components.

Charging regimes are selectable for GEL, AGM, Flooded and Li Ion (special option)

Remote control and remote battery temperature/voltage sensing completes this comprehensive solution to vehicle power charging.

KEY FEATURES

- Universal voltage with unity power factor correction
- 12V and 24V ranges
- Output current 15-80A
- High efficiency/cool running
- Small and easy to install
- Microprocessor with user configurable regimes for GEL, AGM, Flooded and Lithium.
- Fully automatic 4 stage charge cycle control
- Vibration tested to 2G
- Starter battery charging (ESB)
- Sleep mode option
- Rescue battery mode
- Remote temperature/voltage sensor and controller options
- Applications and in-service support from a UK company

Intelligent Charging

Unlike basic chargers, the CX-VPC uses an optimum four stage charging regime which safely refills the battery in the quickest time possible - thereby improving the life of the battery. It makes it suitable for both overnight and opportunity charging.

After switch-on, or after the battery voltage dips, the charger will operate at its maximum rating, bulk charging the battery as fast as possible.

The CX-VPC is programmed to continue bulk charging until it reaches a higher voltage - "forcing" charge into the battery. Accurate sensing avoids the charger reaching the 'gassing' point and it safely switches to a second stage bulk charge, and finally to a taper charge. There is a fourth periodic equalisation charge if required.

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This charging process dramatically reduces the time taken to get to full charge.

The charger is temperature compensated, adjusting its output to ensure that when the batteries are cold the voltage is raised and when warm the voltage is reduced. This ensures charging in cold weather and avoids gassing in

warm conditions. Alternatively the charger can be configured as a constant voltage power supply.

Remote Voltage/Temp Sensor

A remote sensor is available where the battery is located in a different climatic environment or long charging cables are needed.

High Specification

The charger is equipped with many of the protection features not found in other chargers and offers the professional specifier, vehicle builder and fleet user a robust proven solution that they can use with confidence.

	12V					24V		
Part Number	96637	96638	96639	96640	96641	96642	96643	96644
Output Current	15A	25A	35A	50A	80A	15A	25A	40A
No. of main outputs + Engine Start Battery ESB	1 + ESB	2 + ESB	2+ESB	3	3	2	3	3
Float/Boost Voltage	Select Float 13.8/13.5/ Or boost 14.4 /14.7VDC					Select Float 27.6/27.0 Or boost 28.8/29.4VDC		
Output Power (nominal)	180W	300W	420W	600W	960W	360W	600W	960W
Typical Efficiency	87%					90%		
Input Voltage	90V-264V (47-63Hz)							
Dimensions (mm)	183 x 244 x 72(H)			213 x 273 x 77 (H)	213 x 312 x 77 (H)	183 x 244 x 72 (H)	213 x 273 x 77(H)	213 x 312 x 77(H)
Weight (Kg)	1.6kg	1.7kg	1.9kg	3.1kg	4.0kg	1.6kg	2.9kg	3.9kg
Features	Alarm signal, Quiet fan off Sleep Mode, Remote control, Engine start battery ESB output @ 13.8V/2A on (15/25/35A) units only							
Vibration	10-500Hz, 2G 10min / 1 cycle period for 60 min, X Y Z axes							
Charging Regimes	Lead Acid (Flooded, AGM, GEL) & Lithium Ion (special version)							
Temperature Ranges	Operating -20°C to +50°C Storage -40°C to +75°C							
Protection	Temperature controlled cooling fan, short circuit, reverse polarity, overvoltage (recovery after reset AC power on), over temperature (auto recovery)							
Connections	AC connection IEC appliance socket, DC connections screw terminals, control via RG45 socket							
Options	(1) Remote display on/off control and indication Pn 91067 (2) Remote battery temperature compensation and over temperature detection Pn 96645							
Safety Standards	Certified EN60355-1 EN 60335-2-29							
EMI Conduction/Radiation	EN55022; EN55024; EN 61204-3: EN 55014-1; EN 55014-2							
EMI Immunity	IEC 61000-4-2, 3, 4, 5, 6, 8,11;ENV 50204							