

Universal Power Charger 3200

HIGH POWER 110/230V INPUT CHARGER



Approved condition for use (CE mark):
Marine and Automotive applications
Fixed installations in buildings
Type approved: E13 3026 and E13 3027

The Universal Power Charger 3200 series is the largest of the UPC range and has a special niche.

The high power makes them suitable for charging large battery banks such as those on electric vehicles and applications such as mobile libraries.

They can also be used as a powerful DC source from a 230VAC or 110VAC on-board diesel generating set.

The micro-processor control of the UPC chargers has preset regimes which accurately charge Flooded as well as AGM and Cyclic Duty GEL batteries.

The charger can be equipped with features such as external temperature/voltage sensing for charging of batteries mounted remotely from the charger, significantly improving the rate of battery charging.

FEATURES

- Output current up to 200A
- 90-255VAC input
- 12V and 24V (36V/48V/72A/96A versions available)
- High efficiency/cool running
- Small and easy to install
- Latest Mos FET technology
- Microprocessor controlled with pre-set regimes for VRLA GEL and AGM and Flooded battery types
- Unity power factor input
- Fully automatic 4 stage charge cycle control
- Remote temperature/voltage sensor
- Applications and in-service support from a UK company

Intelligent Charging

Unlike basic chargers, the UPC charger operates on an advanced principle making it suitable for both overnight and opportunity charging.

An optimum four stage charging regime (see overleaf) safely refills the battery in the quickest time possible - thereby improving the life of the battery.

Better charged batteries last significantly longer.

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 UPC 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



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POWERFUL 110/230V INPUT CHARGERS

charge, and finally to a taper charge. This process drastically reduces the time taken to get to full charge. In addition to this, 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 stops gassing in warm conditions.

Optional Panels and Sensing

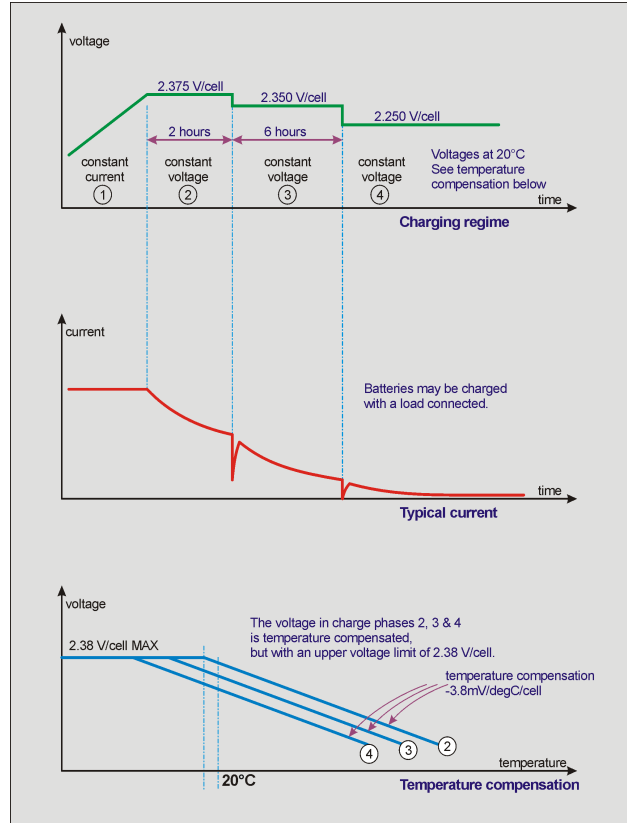
A remote sensor is available where the battery is located in a different climatic environment or long charging cables are needed.

High Specification Protection

The charger is equipped with many of the protection features not found in other chargers (see specification below)

Higher Output Voltages

The UPC 3200 is available with higher voltages of 36V/20A, 48V/15A, 72V/10A and 96V/7.5A (based upon 230VAC input). These may be on extended lead-times.



Part number	96561	96562	96566	96567
Battery voltage	12V		24V	
Output current @230VAC	130A	200A	100A	127A
Output current @120VAC	65A (nom)	100A (nom)	50A (nom)	63A (nom)
Nominal power	1800W	2800W	2800W	3500W
Typical efficiency	88%			
Input voltage	90V-255V (45-400Hz)			
Dimensions & weight	415 (L) x 250 (W) x 85 (H) mm, 12kg			
Environmental protection	IP20			
Features	Power factor corrected			
Options	Remote status lamp panel 96590 , Remote Sense 2.5m 96591 , Remote Sense 20m 96593 , Power Supply Conversion 96592			
Charging regimes	Freely ventilated—VRLA GEL/AGM—Power supply			
Operating temperature	-30°C to +60°C (linear reduction to 50% from 55°C-60°C)			
Storage temperature range	-55°C to +85°C			
Quiescent current	Switched off <2mA, current on 150mA			
Protection	Temperature controlled cooling fan, short circuit, reverse polarity, over/under input voltage, over temperature			
AC Connection	AC connection, PVC cord, 3 x 2.5mm ²			
DC Connection RK twin cable	2 x 25mm ²	2 x 50mm ²	2 x 25mm ²	2 x 25mm ²
Standards	'E' mark approval			