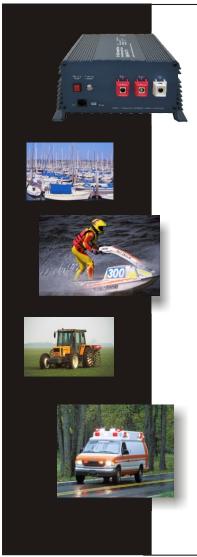
Automatic Switch-Mode Battery Charger



GENERAL FEATURES

- Fitted with boost phase time-out timer to avoid excessive battery gassing
- Overheating and short circuit protection
- IUOU charging characteristic with time limited UO Phase
- Fan ventilation
- LED charging display
- For motor homes, on sailing yachts, ambulance, and emergency vehicles



INPUT

Input 207-253V Frequency 50-60Hz

Protection Internal Primary

Isolation Input-Output 3000VAC

Input-Case 2500 VAC Output-Case 500 VAC Designed to IEC 950

Safety Designed to IEC 950 EMI-EMC FCC Class , CE, C-Tick

Standard AS 3193

Input Connection 3 Core SAA Cable IEC

MECHANICAL

Case Dimension 325L X 230W X 102H

Casing Material Extruded Anodized Aluminum

Weight 5.05 kg.
Cooling Fan cooled
Warranty 12 Months

ELECTRICAL

Topology Switching DC Power

Efficiency 90%
Boost Charge Voltage 14.7 VDC
Float Charge Voltage 13.8 VDC
Output Charge Current 45 Amps
Ripple & Noise 150 mV
Line Regulation +/- 0.5% Over

Input Range

Load regulation +/- 1% 0-100% Load

Rise Time 500 mS

Hold-up Time 20 mS@Nominal Output

Short Circuit Protection Output Shutdown

Over Current Protection Secondary Current Limited

Reverse Polarity Protection Internal Fuse

Charging characteristic

The charging characteristic is generally designated as a modified IU0U characteristic

I phase

At the beginning of the charging process, the empty battery is charged with constant current until the battery voltage reaches 13.8 V or 27.6 V. When the battery reaches this voltage level, the charging current slowly drops. With the drop of the current to the 80 % mark, the charger switches over to the higher charging voltage 14.3 V/14.7 V or 28.6 V/29.4 V.

U0 phase

Here the time registration starts which limits the main charging phase (U0 phase) to a maximum of 4/8 hours. With the switching over of the charging voltage, the current rises again to its maximum value. Now it remains constant as long as the battery voltage is below 14.3 V/14.7 V or 28.6 V or 29.4 V. After reaching the maximum voltage, the current drops again. Thereby the voltage remains constant (U0). Within this main charging phase, which is limited to 4/8 hours, the battery is fully charged.

U phase

If the current decreases to 10% of the rated current or if the time limit of 4/8 hours is exceeded, then the charger switches over to economy charging (13.8 V or 27.6 V) (U phase).