The EPS 1225 has two out banks to charge batteries, a switch for mute function, and a switch field for the selection of the charging voltage and timer function. It also has an optional connection for remote control and temperature sensor as optional accessories.

This sophisticated switch-mode charger has been specially developed for use with all deep-cycle, sealed lead-acid, calcium lead and automotive/marine batteries including immobilised gel electrolyte batteries. It is light-weight, compact and efficient and it will automatically operate on any AC input voltage between 207VAC to 253 VAC.

It automatically charges, without requiring monitoring, all deep cycle, sealed lead-acid, calcium lead, automotive/marine type and gel type batteries with a nominal voltage of 12 volts and up to 110 AH. Charging begins immediate if the battery has been property connected. The output of the charger is electronically protected against short circuit and extremely deeply discharged batteries.





#### **INPUT**

Input Voltage Range 207-253 VAC Frequency 50-60 Hz Internal Primary Protection Inrush Limiting

**Boost Charge Voltage** 14.4/14.8 V Float Charge Voltage 13.8 V **Output Charge Current** 25 Amps

# **MECHANICAL**

Case Dimension Casing Material Weight Cooling Warranty

310L X 240 W X 77 H (mm) Extruded Anodized Aluminum 3.5 kg

Fan cooled 12 Months

### **ELECTRICAL**

**Battery Connections** Max. Battery Capacity Topology Efficiency Short Circuit Protection Over Current Protection Reverse Polarity Protection Fuse

**U0 Phase Limitation** 

Two 300 Ah Switching DC Power Output Shutdown Secondary Current Limited Internal Fuse T4 A/250V

4 h or 8 h

## **ENVIRONMENTAL**

Operating Temp. Range Storage Temperature Relative Humidity Altitude

-5° to 50°C -30°C to +85°C 10% to 95% non-condensing 0-3000m

### 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

U0 phase

V/29.4 V.

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).