EPS 2407

Automatic Switch-Mode Battery Charger

GENERAL FEATURES

- 3 Stage charging cycle
- Suitable for batteries up to 50 AH in cyclic application
- Suitable for up to 90 AH in a standby or float application
- Fully Automatic Operation
- Compact and Light weight
- Fully overload protected (auto recovery)
- Simple LED charging indicator

INPUT

Input	200-260 VAC
Frequency	47-63Hz
Protection	Internal Primary
Isolation	Input-Output 3000VAC Input-Case 2500 VAC Output-Case 500 VAC
Safety	Designed to IEC 950
EMI-EMC	FCC Class B, CE, C-Tick
Standard	AS 3193
Input Connection	3 Core SAA Cable IEC

MECHANICAL

Case Dimension	170L X 207W X 60H
Casing Material	Extruded Anodized Aluminum
Weight	1.5 Kg.
Cooling	Convection cooled
Warranty	12 Months

ELECTRICAL

Topology	Switching DC Power
Efficiency	85%
Boost Charge Voltage	29.4VDC
Float Charge Voltage	27.6VDC
Output Charge Current	7 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	Primary Power Limit
Reverse Polarity Protection	Internal Relay

ENVIRONMENTAL

Operating Temp. Range	-5^{O} to 50^{O}C
Storage Temperature	-30^{O}C to $+85^{O}$C
Relative Humidity	10% to 90%
Altitude	0-3000m

Operation

Plug in and switch on charger at the mains supply and then turn the charger's POWER switch on -- the charger is ready for connecting to the charging socket and/or batteries. IMPORTANT! This type of charger must be connected to the battery before being switched ON. When the charging process begins, the RED LED illuminates. After reaching approx. 80% charge, the RED LED will change to GREEN, BUT LEAVE BATTERIES CONNECTED UNTIL READY FOR USE. To check that battery is fully charged, turn off AC power or remove the charging connector for about 30 seconds then re-connect. The RED LED should light momentarily then go to GREEN. On this type of charger the battery may be left connected indefinitely as overcharging is impossible.