



120W U.P.S. FOR AUTOMOTIVE APPLICATION

FEATURES:

- 230V AC and 10V–30V DC Board Power input.
- Intelligent lead acid battery charger built in.
- Dust free and water resistant aluminium housing.
- RS232 interface bus featuring extended status report functions.
- Compact size and low weight.
- Extended operating temperature from -25 to +60° C
- Operating at maximum rated temperature and free air convection without derating.
- Full compliance to international safety- and EMI standards.
- CE and e marked.



GENERAL

Dielectric voltage withstand:

- ACMAINS input to output: 3000Vac
- ACMAINS Input to frame: 1500Vac
- Board Power Input/ to output: 500Vac
- Board Power input to frame: 500Vac
- Output to frame: 500Vac

Efficiency:

- Applying ACMAINS Power: > 88%
- Applying Board Power: > 80%

Environment:

- Operating temperature range: -25 to +60° C
- Dust & water resistance: IP 54
- Shock & vibration: ETS300 019-1-5 class 5M2
- Cooling: Free air convection

MECHANICAL

Dimensions (L x W x H): 218x120x81 mm
Weight: 1.4 Kg

INPUT

ACMAINS:

- Voltage range: 198 – 254V
- Frequency: 47 – 63 Hz
- Inrush current: 30A max.
- Power factor: > 0.5

Board Power:

- Voltage range: 11 – 27V DC

BATTERY INPUT / OUTPUT

- Battery type: 12V lead acid 30AH
- Charge characteristic: U - I
- Fast charge current: 6A ± 5%
- Trickle current voltage at 25° C: 13.8V ± 2%
- Temperature compensation:
 - In range -25° C to 0° C: 14.4V ± 3%
 - In range 0° C to +15° C: 14.4V – 40mV/°C
 - In range +15° C to +35° C: 13.8V ± 3%
 - In range +35° C to +50° C: 13.8V – 26.7mV/°C

MAIN OUTPUT

- Voltage: 13.8 +0.6, -2.8V
- Current: 9A max.

INTERFACE SIGNALS

- Board Power On: Switches input power from stand by battery to board power.
- RS232 bus: Serial communication protocol providing the following functions:
 - Status Stand by battery capacity
 - Report of active power source.
 - Report of device identification and warning messages.

PROTECTIONS

- Thermal Overload at internal ref. point: 90 ± 5° C
- Under Voltage Board Power: 10.5 ± 0.3V
- Under Voltage stand by battery: 10.7 ± 0.2V