

130WATT CHARGER INSTALLATION SHEET

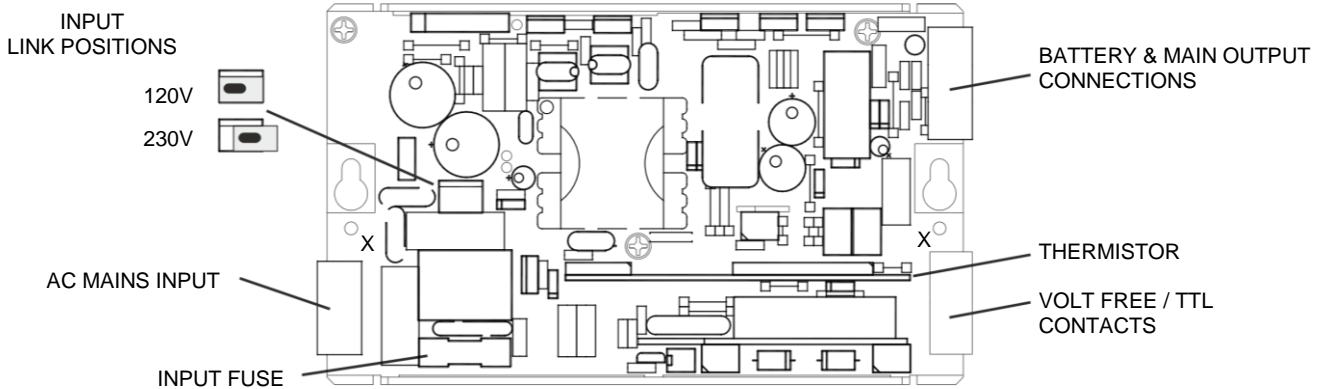
SAFETY INSTRUCTIONS

- The PSU must be reliably connected to earth.
- In accordance with IEC415 No.5017, a label showing the protective earth symbol should be placed adjacent to the installation earth.
- A suitable disconnecting device should be installed by the end user.

INPUT VOLTAGE SELECTION AND FUSING

The PSU operates from two user configurable supply voltages 120/230Vac @ 47-63Hz, with a maximum tolerance range of 90-132Vac and 180-264Vac.

The PSU is configured by removing the cover (held in place by screws 'x'). The link can be moved to the 230 or 120V connection as required.



The input fuse is accessed by removing the cover (held in place by two screws 'X'). The fuse must be replaced with the same type and rating. The output fuse is non-replaceable, this is a return to manufacturer replacement part.

SITING THE THERMISTOR

The thermistor **MUST** be connected for correct operation. The thermistor is used to sense the battery temperature and should be placed within the vicinity of the system batteries.

OUTPUT VOLTAGES AND CURRENT RATING

12V UNIT

| O/P | VOLTAGE | CURRENT (MAX.) |
|-----|---------|----------------|
| 1 | 14.4V | 9.0A |
| 2 | 13.6V | 3.0A |

The continuous power output from the PSU is 130W. Any combination of currents can be taken from each output (up to their respective maxima) provided that this be $\leq 130W$.

The unit has a peak rating of 200W for 10 seconds. **DO NOT** operate the PSU above its maximum rated power.

The PSU is for use in a maximum ambient of 40 °C.

Output 2 is temperature compensated to provide a variable float voltage when charging sealed lead acid batteries.

COLD START

The unit can start directly from batteries by pressing the 'cold start' button.

Note: The batteries need to be >75% charged to use this function.

VOLT FREE RELAY / TTL FUNCTIONS

(factory defaults, unless otherwise indicated on the ratings label)

Two sets of volt free contacts and 2 TTL pins are provided which indicate fault conditions.

I01 is set to VFR Battery Low.

I02 is set to VFR System Fault.

I03 is set to TTL UVLO (Open Collector).

I04 is set to TTL General Fault (Open Collector).

LEDS (factory defaults, unless otherwise indicated on the ratings label) Four LEDS are provided for fault monitoring

LED1 - CHARGER FAULT

LED2 - BATTERY LOW

LED3 - STANDBY SUPPLY FAULT

LED4 - MAIN SUPPLY FAULT

WARNING SYMBOLS



Danger - Hazardous voltage inside.
Contact will cause shock or burn.
Turn off and lockout system power before servicing



Caution - Hot surface
Contact with internal components during servicing may be hot.

CONDITIONS FOR ACTIVE SIGNALS

| | I01 | I02 | LED1 | LED2 | LED3 | LED4 | FAULT |
|----------------------|-----|-----|------|------|------|------|-------|
| Battery Low | * | * | * | * | * | * | * |
| Battery Reversed | * | * | * | * | * | * | * |
| Battery Disconnected | * | * | * | * | * | * | * |
| AC Mains Failure | * | * | * | * | * | * | * |
| Charger Failure | * | * | * | * | * | * | * |