

303-004 - 3 AMP POWER SUPPLY with BATTERY MONITORING

OVERVIEW

The model 303-004 Power Supply Unit will provide 27.6 volt dc for loads of up to 2.5 amps, whilst charging Lead Acid Batteries. The Batteries are monitored continuously to ensure and communicate an adequate state of charge.

OPERATION

The unit is factory adjusted to provide a 27.6 volt dc output. When fitted, a lead acid rechargeable battery can be charged, and then trickle charged to maintain optimum condition. Batteries with a supply voltage greater than 18 volts are needed to activate the charging circuit. The mains present indicator is a green LED and the Amber LED pulses in fault conditions. During mains failure the load will be supplied from the rechargeable battery, the battery must be connected correctly to prevent damage. An automatic disconnect circuit will operate if the battery voltage becomes too low. This unit must be used with DC appliances only.

FAULT RELAY

Voltage Free relay contacts are available at the terminal block. The relay changes state to indicate any of the following faults: Mains failure; Output fuse failure or Load short circuit; battery low, missing or short-circuit.

SPECIFICATION

Mains input	230V/240V 50Hz
PSU output total	3A @ 27.6V dc maximum
Load output	2.5A @ 27.6V dc with rechargeable battery fitted
Load Voltage Regulation	0.9% maximum
Output ripple	50mV rms maximum
Maximum Battery size	2 x 7Ah 12V Lead Acid
Battery Disconnect Voltage	21V Nominal
Battery Recharge time	24 hours to 80% capacity (from disconnect)
Environment	-10 to +40°C at up to 95% R H

FUSES

24V Nominal output FS1	F3A	20mm	Glass
Mains input	T2A	20mm	HRC



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