EN54-13V8-5A SERIES

Battery Charger: 12V 5A





Features

- Separate load and battery charging output Load 4A, Battery Charger 1A
- Deep discharge battery protection
- Reverse battery protection
- High efficiency up to 85%
- Meets requirements of EN61000-3-2 Class A
- Meets requirements of EN55022 Class B conducted noise
- Output signals can be factory programmed to customer needs
- Vented case package
- DIN Rail mounting option

Specifications

240Vac (200~264) Input Voltage

47 ~ 63Hz Input Frequency

Input Current 1A

Earth Leakage <300µA @ 230Vac

30ms @ 230Vac input, full load and no Hold Up Time

battery connected

Power Factor 0.42 @ 230Vac and full load

No load Power

Typically 1.5 seconds Start up Time

Output Voltage 13.8V

Output Current Load: 4A Battery: 1A **Power Limit** Typically at 115%

80-85% @ 230Vac and full load Efficiency

OVP 105-125% latching. Recycle input after 30

seconds to restart

Short Circuit

Protection

Hiccup mode

Current Limit Primary side power limited

Primary side (non-latching) **Thermal Protection**

-10°C to +70°C Operating Temp.

(Derate 2.5% / °C above 50°C)

Cooling Convection cooled

Humidity 10-95% non-condensing

Load Regulation ±0.75% ±0.5% Line Regulation

Ripple & Noise 0.5% @ 230Vac, full load (BW =DC-10Hz)

EN60950, Class I Safety

Input - Output / Case: 2200Vdc Isolation

EMC EN55022 Class B Conducted EN55022 Class A Radiated

EN61000-3-2 Class A Harmonics **Immunity**

EN61000-4-4 Fast Transients EN61000-4-5 Surge

EN61000-4-11 Voltage Dips

Description

Deep Discharge

Case Material

The EN54 Series is a new generation / smart Power Supply that is designed to provide battery backed-up power in the event of either the PSU or the battery being disconnected or short circuited.

When the AC supply fails, the battery will automatically be connected and will provide power until the ac supply is restored.. If the battery has reached it's disconnect voltage, it will automatically be disconnected to prevent deep discharge damage.

Designed for powering critical loads with battery back-up, in a wide range of Industrial applications and in particular Security installations and Access Control, with separate Load and Battery Charging circuits.

A wide range of Signals, Led's and Alarms, all aimed at a providing the optimum solution for powering critical DC Loads.

An isolated Common Fault relay has been provided which will operate if any fault is found (This is a fail-safe signal so will signal a fault even if no power sources are on/connected.

Battery & Signals (Refer to manual for complete details)

Output current limited @ 1A Battery

Connector provided for user to add 100KΩ thermistor Temp

(β =4400), suitable for standby use Compensation

Protection at 10V ± 0.2V Signals Mains Fail, Battery O/C, Charger Loss, Battery Low

LED's & open collector - 100mA sink, Status LED

Green = Flashing = OK

Common Fault (Volt free) relay 2x Customer options - open collector - 30mA sink HiZ indication

Battery Powerfail signal = 100mS

Alarm Common Fault relay via voltage free contacts

LED'S Mains Fail

Battery Low

Batter Open Circuit Charger Loss

Status ON Zintec

Connector-Input Input: Barrier Strip / Screw terminal

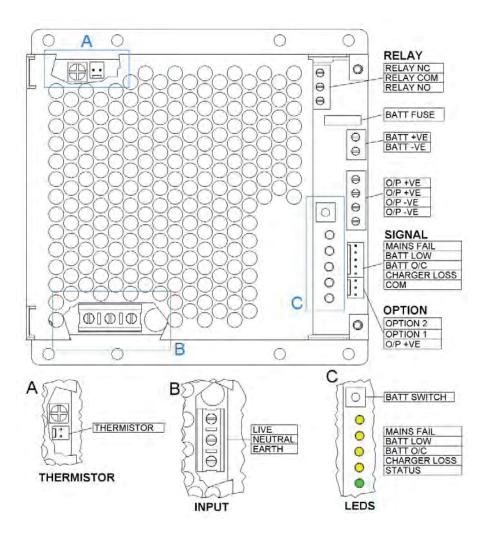
Connector-Load & Battery: Barrier Strip / Screw terminal Output

Connector-Molex 6410 vertical Signals

Dimensions 124 x 122 x 50mm 450gr



Fig1: Connections



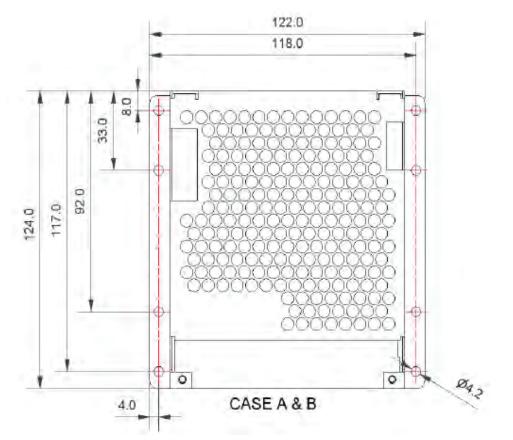


Fig2: Mounting