

SBC-EN54-27V6-3A0 power supply

Features:

- Single output plus battery charger
- Deep discharge battery protection
- Reverse battery protection
- High efficiency
- Cased unit
- Low touch currents
- Meets requirements for EN54-4 1998 inc Amends 1&2
- Meets requirements of EN61000-3-2 PFC Class A
- Meets requirements of EN55022 'B' for conducted noise
- Signalling can be factory programmed to customer requirements
- CE marked to LVD. Certified to EN60950



Specification:

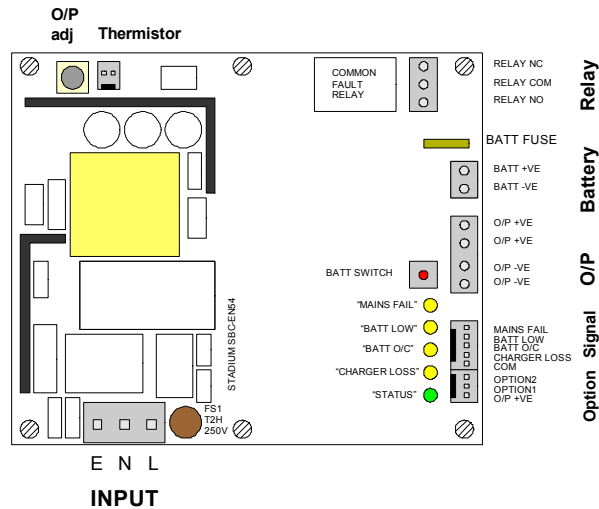
| INPUT | |
|---------------------------|--|
| Input Voltage | 200 – 230 Vac +/-10% |
| Frequency Range | 50 / 60Hz |
| Temperature Range | 0 – 50°C ambient (Convection cooled, cased) |
| Input Fuse | T2H 250V TR5 |
| Input Current | 1Arms (180Vacin, full load) |
| Hold-up Time | 30mS (230Vacin, full load, no battery connected) |
| Power Factor | 0.45 (230Vacin, Full load) |
| No Load Power | 1.5W (230Vacin) |
| Start-up | Less than 1.5 seconds |
| OUTPUT | |
| Output Voltage | 27.6V (factory set for operation with thermistor) |
| Output Current | 2.4A |
| Power limit | 115% +/-10% |
| Efficiency | 80-85% Typ.@ 230Vacin, Full load |
| OVP | 105-125% (latching and non dissipative) recycle input to restart |
| Short Circuit protection | Hiccup mode |
| 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 = 1Ω Battery Powerfail signal = 100mS |
| Current limit | Primary side power limit |
| Thermal protection | Primary side thermal protection (non-latching) |
| Load regulation | +/- 0.75% |
| Line regulation | +/- 0.5% |
| Noise & ripple | 0.5% (230Vacin, Full load, BW = DC – 10MHz) |
| BATTERY | |
| Charger | Current limited @ 0.6A |
| Temp compensation | Connector provided for user to add 100KΩ thermistor (β=4400) Suitable for standby use |
| Deep discharge protection | 21V +/-0.25V |

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| ENVIRONMENT | |
|------------------------------------|--|
| Temperature | -10°C to +70°C (Derate 2.5% / °C above 50°C) |
| Cooling | Convection only |
| Humidity | 10-95% non-condensing |
| Storage | -25°C to +85°C |
| MTBF | >80,000 hrs 25°C (MIL217F parts count method) |
| SAFETY & REGULATORY SPECIFICATIONS | |
| PSU Class | Class I :- Component part |
| Safety | Certified to EN60950, CE marked against LVD Designed to meet UL60950 |
| Flash test | Uncased units: I/p to O/p 4300V DC Cased units: I/p to O/p & E 2200V DC |
| Earth leakage current | <300uA rms (230Vacin 50Hz) |
| Output touch current | <100uA rms (230Vacin 50Hz) |
| EMC – Conducted | Designed to meet requirements of EN55022 “Class B” |
| EMC – Radiated | Designed to meet requirements of EN55022 “Class A” |
| EMC – Power Factor | Designed to meet requirements of EN61000-3-2 “Class A” |
| EMC – Fast Transients | Designed to meet requirements of EN61000-4-4 |
| EMC – Surge | Designed to meet requirements of EN61000-4-5 |
| EMC – Voltage Dips & Fluctuations | Designed to meet requirements of EN61000-4-11 |
| | EMC will require re-evaluation in host equipment |
| MECHANICAL | |
| Dimensions | 124mm x 122mm x 49.5mm (H) |
| Fixings | 4x 4.2mm holes on a 109 x 114mm pitch |
| Case Material / Finish | Zintec |
| Input Connector | CAMDEN CTB0118 or equivalent |
| Output Connectors | Power = CAMDEN CTB0108 or equivalent Signal = MOLEX 6410 Vertical friction lock or equivalent |
| Pin-out | See below |
| Weight | 450 grams |

Technical specification may be subject to change – contact sales office before ordering.

Connection Diagram



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