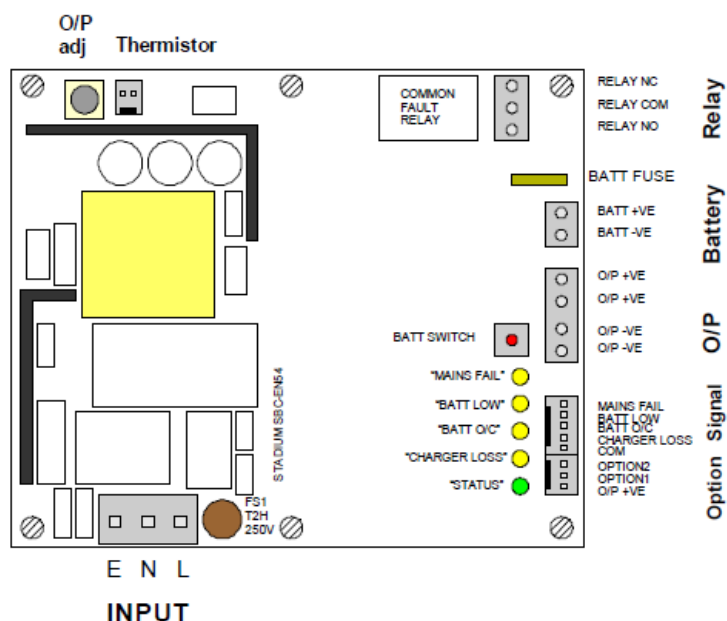


## Datasheet

# RS Pro Power Supply

RS Stock No: 106-5818

### Connection Diagram



### 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.



## Specifications:

Input	
Input Voltage	100 – 230V ac +/-10%
Frequency Range	50-60Hz
Temperature Range	0 - 50°C ambient (Convection cooled, cased)
Input Fuse	T2H 250V TR5
Input Current	1.1Arms (90Vacin, Full load)
Hold-Up Time	10mS (110Vacin, full load, no battery connected) 85mS (230Vacin, full load, no battery connected)
Power Factor	0.45 (230Vacin, full load)
No Load Power	1.5W (230Vacin)
Start-Up	Less than 3 seconds, 100Vacin
Output	
Output Voltage	27.6V (factory set for operation with thermistor)
Output Current	1.2A
Power Limit	115% +/-10% (110Vacin)
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 =2J 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 @ 0.35A
Temp Compensation	Connector provided for user to add 100Kl thermistor ( $\beta=4400$ ) suitable for standby use
Deep Discharge Protection	21V +/- 0.25V



## Specifications:

Environment	
Temperature	-10°C to +70°C (Derate 2.5% / °C above 55°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 to 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 39.5mm (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
Weight	450 grams