



Features:

- Single output plus battery charger
- Deep discharge relay
- Reverse battery protection
- Mains Fail signal
- High efficiency
- Open frame or cased option
- Low cost
- Low touch currents
- Meets requirements of EN61000-3-2 PFC Class A
- Meets requirements of EN55022 'B' for conducted noise



Characteristics	
Input Voltage	100 – 230 Vac +/-10%
Frequency Range	50 / 60Hz
Temperature Range	0 – 50°C ambient (Convection cooled, uncased)
Input Fuse	T2H 250V TR5
Input Current	1.35Arms (90Vacin, 60W load)
Hold-up Time	8ms (110Vacin, 60W load, no battery connected) 70ms (230Vacin, 60W load, no battery connected)
Power Factor	0.45 (230Vacin, Full load)
No Load Power	1.5W (230Vacin)
Output Voltage	13.8V/27.6V (+/-4% adjustment on pcb – End float voltage)
Output Current	4.34A/2.17A (60Wmax – Shared between o/p and battery charger)
Power Limit	115% +/-10% (100Vacin)
Efficiency	Up to 86% (230Vacin, Full load, 27.6V unit)
OVP	105-125% (latching and non dissipative) recycle input to restart
Short Circuit Protection	Hiccup mode
Signals	Mains Fail – open collector, Status LED Green=Mains Red=Battery Connector for external LEDs
Current Limit	Primary side power limit
Thermal Protection	Primary side thermal protection (non-latching)
Load Regulation	+/-0.5%
Line Regulation	+/-0.5%
Noise & ripple	0.5% (230Vacin, Full load, BW = DC – 10MHz)
Charger	Current limited, 0.8A for 13.8V unit, 0.4A for 27.6V unit
Temp Compensation	Connector provided for user to add 100KΩ thermistor (=4400) Suitable for standby use
Deep Discharge Protection	9.5V +/-0.5V for 13.8V unit , 19V +/-1V for 27.6V unit
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	>100,000hrs 25°C (MIL217F parts count method)

Characteristics	
PSU Class	Class I & II :- Component part
Safety	Certified to EN60950, CE marked against LVD Designed to meet UL60950
Flash Test	I/p to O/p, 4300V DC Cased units, I/p to O/p & E, 2200V DC
Earth Leakage Current	None
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
Dimensions	152.4mm x 50.84mm x 29.0mm (H)
Fixings	5x 4.0mm holes - See below
Input Connector	3W CAMDEN CTB0118/2 or equivalent
Output Connector	Power = 3x 2W CAMDEN CTB0708/2 or equivalent Signal = 3x 2W MOLEX 6410 Vertical friction lock or equivalent
Pin-Out	See below
Weight	180grams

SBC60 Connection and mounting diagram

All dimensions are in mm

