

# EN54-13V8-10A SERIES

Battery Charger: 12V 10A



## Features

- Separate load and battery charging output  
**Load: 8A, Battery Charger:2A**
- 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

<b>INPUT</b>	
Input Voltage	220 – 240 Vac +/-10%
Frequency Range	50 / 60Hz
Temperature Range	0 – 45°C ambient (Convection cooled, cased)
Input Fuse	T2H 250V TR5
Input Current	1.5Arms (200Vacin, full load)
Hold-up Time	20ms (230Vacin, full load, no battery connected)
Power Factor	0.5 (230Vacin, Full load)
No Load Power	2W (230Vacin)
Start-up	Less than 1.5 seconds
<b>OUTPUT</b>	
Output Voltage	13V8 (factory set for operation with optional thermistor)
Output Current	13V8 unit: 8A
Power limit	115% +/-10%
Efficiency	Up to 82% (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 (0.2Ω) Battery PowerFail signal = 100mS
Current limit	Primary side power limit
Thermal protection	Primary side thermal protection (non-latching)
Load regulation	+/-0.75% (before OR-ing diodes)
Line regulation	+/-0.5%
Noise & ripple	0.5% (230Vacin, Full load, BW = DC – 10MHz)
<b>BATTERY</b>	
Charger	Current limited, 2A
Temp compensation	Connector provided for user to add 100KΩ thermistor (β=4400) Suitable for standby use
Deep discharge protection	10V +/-0.25V
Fuse	15A 32V mini blade, automotive
<b>ENVIRONMENT</b>	
Temperature	-10°C to +70°C (Derate 2.5%/°C above 45°C)
Cooling	Convection only
Humidity	10-95% non-condensing
Storage	-25°C to +85°C
MTBF	>80,000hrs 25°C (MIL217F parts count method)

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<b>SAFETY &amp; REGULATORY SPECIFICATIONS</b>	
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	<750uA rms (230Vacin 50Hz)
Output touch current	<175uA 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 need re-evaluating in final system
<b>MECHANICAL</b>	
Dimensions	159x132x58mm
Fixings	123x83 for M3
Case Material / Finish	Zintec
Input Connector	CAMDEN CTB0118 or equivalent
Output Connectors	Power = CAMDEN CTB0108 or equivalent Battery = CAMDEN CTB0118 or equivalent Signal = MOLEX 6410 Vertical friction lock or equivalent
Pin-out	See below
Weight	650 grams

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

