

FR800-110 IP67 RATED CUSTOM BATTERY CHARGER PRODUCT SPECIFICATION

Issue: Rev 2 (<i>Note: Amendments to previous issue in italics</i>)		Date: 29/01/08
Parameter	Data	Comments
Input Voltage Range	180 – 264Vac	
Power Factor (typical)	>0.65	
Frequency	47 - 63Hz	
Input current (max)	8.6A	Max @ 180Vac full load
Inrush current	<40 A	
Input fuse	12A HRC 6.3 x 30mm	Internal
Earth leakage	<3.5 mA	Typical @ 264Vac input
Input connector	1.5M mains lead	Terminated with UK mains plug IP67 rated
Outputs	V1	
Output voltage	+29V	
Output current (max)	28A	
Minimum Load	N/A	
Load regulation	+/-1%	
Line regulation	<0.25% over full input power range at full load	
Ripple/noise max RMS	0.2%	1% pk-pk DC-30MHZ
Adjustment range	Factory preset	
Short circuit protection / over current	Y	
Over voltage protection	Y	115-125% of Output – Unit shuts down.
Temperature coefficient	0.02%/°C	
Transient deviation	2mS	Output returns to nominal value within 2mS for 50% load variation
Maximum output power	812W	
Output connections	Belling Lee	Type L1005/1 including H panel fitting (Red & Black). Mounting sealed for IP67
Signals	LED's for input & output status indication	MARL 512 series (sunlight readable – IP67 rated). 10mm diameter. <i>Red</i> for mains OK, <i>Green</i> for output OK.
Hardware	Heavy duty carry handle provided	<i>RS Pt.379-9258</i> <i>(alternative 750-238 acceptable)</i>
Efficiency	Typically 75-85%*	
Cooling	Convection	
Operating temperature	-32°C to 54°C	Derate @ 2.5%/C > 54°C
Storage Temperature	-25°C to +85°C	
Operating humidity	0 to 95%	RH non-condensing
Dimensions	330 x 230 x 180mm	
Format	Fully Encased to IP67	
Construction	Aluminum Enclosure	Military green paint finish (2Pt)
MTBF	>100,000 Hrs to MIL STD217F @ 20°C	
Shock & vibration	To MIL STD 810E	
Weight	<10Kg	
Safety	Designed to meet EN60950, UL1950 and CSA22.2 No 950 + 234.	CE marked to LVD
Isolation (I/P to earth)	2.5kVdc	
Isolation (I/P to O/P)	4.25kVdc	
Isolation (O/P to earth)	500Vdc	
EMC	EN55022-B (conducted), EN55022-A (radiated)	Designed to meet
IMMUNITY	EN61000-4-2 (ESD), EN61000-4-3 (radiated), EN61000-4-4 (fast transients), IEC 801-5 (surge)	Designed to meet

Notes / additional features:

Labelling : Anodised aluminium (Black/silver finish) with etched serial number. Screwed or riveted to casing top. Size approx 100 x 40mm. Additional adhesive temperature warning labels to be added to sides / top (type TBA). In compliance with H & S. Additional adhesive indicator labels for Mains ok / Output ok (type TBA)

Customer Approval

DATE :

NAME :

SIGNED :