

BR1875 Power Supply/Battery Charger for Rail application



- Network Rail PADS approved: PA05/02113
- Railway Signalling Charger
- Compact, rugged and reliable solution for trackside power and backup
- 5 output voltage and current variants
- Reverse battery polarity protection
- Power off detection as standard
- Enhanced DC surge protection

INPUT

AC Voltage : 230VAC (85-264) Single Phase
 Current : <10A sinusoidal
 Inrush : <24A
 Frequency : 45 – 55Hz
 Output Ripple : <25mV peak to peak
 Regulation : Load and Line <400mV

OUTPUT

Current : See Variants Options
 Current Limit : 086/001929, 086/001925 & 086/1926 are limited to 100% of nominal output load at 80% of set voltage
 All others are 150% of nominal output load at 80% of set voltage

PROTECTION

Input : Internal fast HRC
 AC : MOV surge protection
 Soft start : Ramp up in 12 secs
 DC Surge : Enhanced surge protection
 DC Fault : Output short circuit protection
 Reverse Battery : Unit will not power up output
 Over temperate : Output power limiting

MECHANICAL

Size : 315mm x 325mm x 200 mm (HxWxD)
 Weight : <12kg

INDICATORS AND ALARMS

Front Panel LED's indicating the following conditions:
 LED 1 – Green : Charging (>2% output current)
 LED 2 – RED : Charger Fail
 LED 3 – RED : Output over and under voltage
 LED 3 – RED : Battery polarity incorrect

ENVIRONMENTAL

Cooling : Natural Convection
 Efficiency : Typically >85% at full load
 Temperature : -20°C to +60°C power limiting
 Relative Humidity: 0-95% non-condensing
 Altitude : to 1,500 metres
 Safety : EN60950
 EMC : BS EN50121-4:2014

VARIANT OPTIONS

NR Cat No.	Duvine Code	Nom VDC	Nom Load	No. of Cells		
				NiCd	SLA	Cycl
086/001921	PRD-0921-1001	24V	20A	20	13	12
086/001929	PRD-1929-1001	50V	10A	41	25	25
086/001925	PRD-1925-1001	120V	3A	87	57	57
086/001926	PRD-1926-1001	120V	5A	87	57	57
086/001920	PRD-0920-1001	120V	7.5A	87	57	57

BR1875 Power Supply/Battery Charger for Rail application

