

## BR1875 Power Supply/Battery Charger for Rail application



- Network Rail PADS approved: PA05/02014
- Railway Signalling Charger
- Compact, rugged and reliable solution for trackside power and backup
- 9 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 : <5A sinusoidal  
 Inrush : <24A  
 Frequency : 45 – 55Hz  
 Output Ripple : <25mV peak to peak  
 Regulation : Load and Line <200mV

### OUTPUT

Current : See Variants Options  
 Current Limit : 150% of nominal output load at 80% of set

### 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 : 265mm x 260mm x 180 mm (HxWxD)  
 Weight : <10kg

### INDICATORS AND ALARMS

Front Panel LED's indicating the following conditions:  
 LED 1 – Green : Charging (>2% output current)  
 LED 2 – RED : Charger Fail  
 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
086/001940	PRD-0907-1001	24V	4A	20	13	12
086/001917	PRD-0917-1001	12V	3A	10	6	6
086/001918	PRD-0918-1001	12V	8A	10	6	6
086/001916	PRD-0916-1001	12V	13A	10	6	6
086/001908	PRD-0908-1001	16V	3A	14	8	8
086/001910	PRD-0910-1001	24V	9A	20	13	12
086/001919	PRD-0919-1001	32V	3A	28	16	16
086/001912	PRD-0912-1001	50V	1A	41	25	25
086/001913	PRD-0913-1001	50V	1A	41	25	25
086/001914	PRD-0914-1001	60V	4A	48	30	30

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