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

Current	: See Variants Options
Current Limit	: 150% of nominal output load at 80% of set voltage
Output Ripple	: <25mV peak to peak
Regulation	: Load and Line <200mV

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

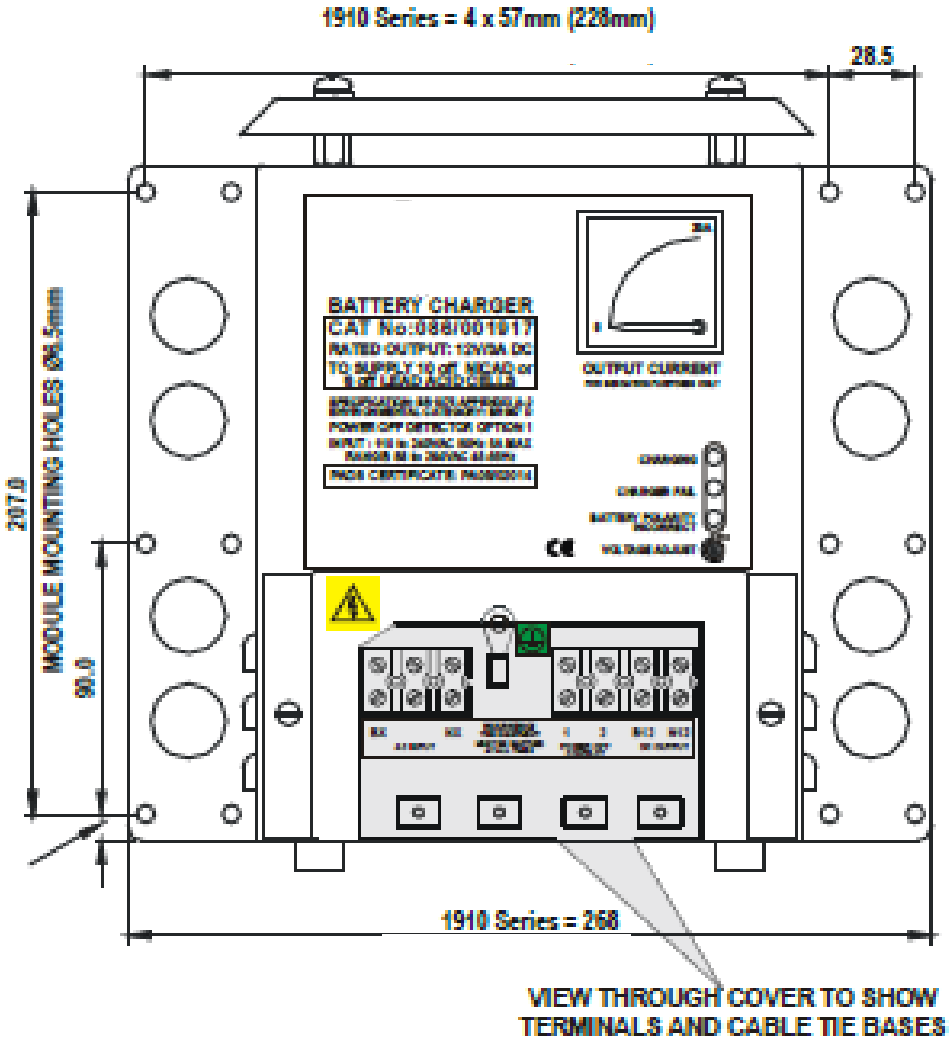
NR Cat No.	Duvine Code	Nom VDC	Nom Load	No. of Cells		
				NiCd	SLA	Cycl
086/001940	PRD-0907-1001	24V	4A	20	13	12
086/001917	PRD-0917-1001	12V	3A	10	6	6
086/001918	PRD-0918-1001	12V	8A	10	6	6
086/001916	PRD-0916-1001	12V	13A	10	6	6
086/001908	PRD-0908-1001	16V	3A	14	8	8
086/001910	PRD-0910-1001	24V	9A	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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