datasheet | DD920 Series

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

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
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	: 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 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

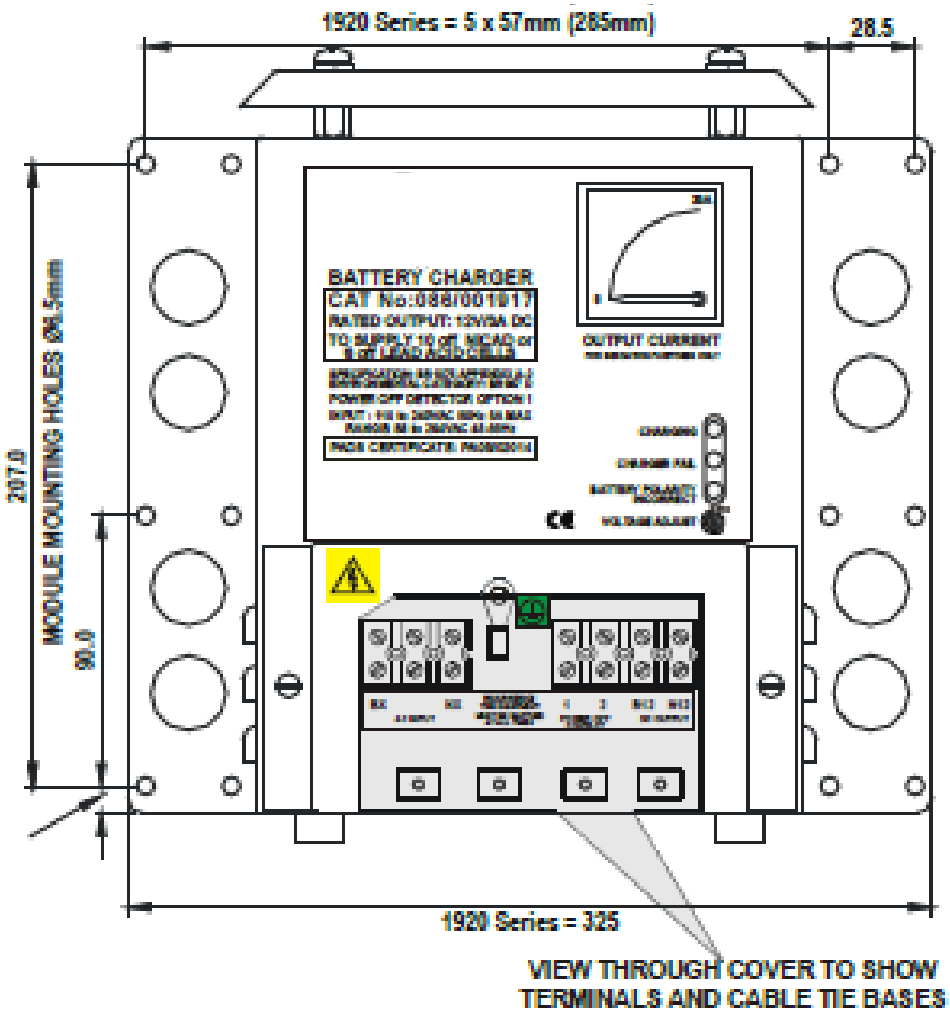
NR Cat No.	Duvine Code	Nom VDC	Nom Load	No. of Cells		
				NiCd	SLA	Cycl
086/001921	PRD-0921-1001	24V	20A	20	13	12
086/001929	PRD-1929-1001	50V	10A	41	25	25
086/001925	PRD-1925-1001	120V	3A	87	57	57
086/001926	PRD-1926-1001	120V	5A	87	57	57
086/001920	PRD-0920-1001	120V	7.5A	87	57	57

Duvine Ltd
Sturmer Road, Haverhill,
Suffolk, UK, CB9 7UU

Company No : 5941429
UK VAT No : 896294266

Tel : +44 (0)1440 706777
Fax : +44 (0)1440 762810
Email : sales@duvine.co.uk
Website : www.duvine.co.uk

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