

# Trackside Power - DD910/920 Series

## Compact BR1875 power supply/charger featuring:

- Reverse Battery Polarity Protection
- Power Off Detection as standard
- Universal AC Input 88-264VAC
- Power Factor Correction >0.99
- Enhanced DC Surge Protection

### Electrical

Input Voltage: 88-264VAC  
 Input Frequency: 45-55Hz  
 Input Current: 086/001908-19 <5 Amp sinusoidal  
 086/001920-21 <10 Amp sinusoidal  
 Inrush <24 Amps peak  
 Output ripple: <25mv peak to peak  
 Regulation  
 Load & Line: <200mV (86/1921 <400mV)

### Protection

Input Fuse: Internal fast HRC  
 AC surges : MOV  
 Soft start: Ramp up in 12 seconds  
 DC surges: Enhanced surge protection  
 DC fault: Output short circuit protection  
 Over temperature: Output power limiting  
 Reversed Battery: Unit will not power up output.

### Indicators

Front panel LED's to indicate the following conditions:

- **Charging** - Green (>2% output current)
- **Charger Fail** - Red (Output over or under Voltage)
- **Battery Polarity Incorrect** - Red (Reversed battery)

### Physical

Size:	086/001908-19	086/001920-29
High	265mm	315mm
Wide	260mm	325mm
Deep	180mm	200mm
Weight:	<7kg	<11kg

### Environmental

Efficiency: Typically >85% at Full load  
 Cooling: Natural convection cooling  
 Temperature: -20 to +60°C power limiting  
 Relative humidity: 0 to 95% non condensing  
 Altitude: to 1500 metres  
 Safety: EN60950  
 EMC: EN50121-5



DD910 Series - 086/001910 Charger

### Product Approval No

086/001908 to 086/001919 PA05/02014  
 086/001920 to 086/001929 PA05/02113

### Range

Nom Volts	Nom Load	NR Code	Current Limit	Number of Cells	Ni-CAD	LA	Cyclon
12V	3A	086/001917	4.5A	10	6	6	
12V	8A	086/001918	12.0A	10	6	6	
12V	13A	086/001916	19.5A	10	6	6	
16V	3A	086/001908	4.5A	14	8	8	
24V	9A	086/001910	13.5A	20	13	12	
24V	20A	086/001921	30.0A	20	13	12	
32V	3A	086/001919	4.5A	28	16	16	
50V	1A	086/001912	1.5A	41	25	25	
50V	5A	086/001913	7.5A	41	25	25	
50V	10A	086/001929	10.0A	41	25	25	
60V	4A	086/001914	6.0A	48	30	30	
120V	5A	086/001920	7.5A	87	57	57	
120V	3A	086/001925	3.0A	87	57	57	
120V	5A	086/001926	5.0A	87	57	57	

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