



**RAIL FLEET  
BATTERY  
CHARGING**



# 29V Dual Output Rail Charger – 100A and 200A



- Battery charger for use on a wide range of 29V battery sets for passenger and freight locomotives and carriages
- Mobile and wall mount options available
- Suitable for maintaining battery sets for starters and auxiliary systems
- Selector switch for either wet or gel type batteries
- Selector switch for different output currents
- Digital meters
- Indicator beacon
- Standard panel mount AC input connector
- Heavy duty DC output connector
- Safety features built in

## INPUT

Voltage : 230VAC (90-264) Single Phase or  
415VAC 3PH plus Neutral  
Current : 30A @ 230VAC  
Frequency : 47-63Hz  $\pm$ 5%

## OUTPUT

Voltage : 24V nominal  
Float : 28.2V – Wet batteries  
: 29V – Gel batteries  
Current : 100A  
: 200A  
Regulation :  $\pm$  1%  
Ripple : <300mVp-p

## ALARMS AND INDICATORS

Alarms : Over Voltage Protection  
: Over Load Protection  
: Over Temperature Protection  
: Fan Fail

Indicators : Beacon  
- Charging  
- Charged  
- Alarm  
: Front panel LEDs  
- AC on  
- Alarm  
- Voltage selected  
- Current Selected  
: Illuminated digital meters



## 29V Dual Output Rail Charger – 100A and 200A

### PROTECTION

Input : Mains Isolator  
: 32A MCB

Over Load Protection : 105%  
Over Voltage Protection : 120% ± 7%  
Over Temperature Protection : 85 °C ± 5 °C  
Short Circuit Protection  
Fan Fail Alarm

### SAFETY

- Selector Lockout once operational
- Output will disable if disconnected

### ENVIRONMENTAL

Cooling : Fan Cooled  
Temperature : -15oC to +45°C Operational  
Functional above +45°C (derate linearly to 50% load), Shutdown at +85°C internal  
Humidity : 20-90% non-condensing  
Safety : Compliance with low voltage directive  
EMC : Compliance with EMC directive

### MECHANICAL

Size : 550mm x 300mm x 490mm (HxDxW)  
Weight : Approx 38Kg  
IP Rating : IP23  
Colour : Yellow

### CONNECTORS

Connections : Mains input – 5m lead with IEC plug (supplied)  
: DC output – 5m lead with Anderson style adaptor (Additional)  
: 100A 2 pin Stainless Steel connector with adaptor (Additional)  
: 200A 3 Pin Stainless Steel connector with adaptor (Additional)  
: Input and output cables also supplied in different lengths at 5 metre intervals (Additional)

100A Connector	200A Connector
Class 165	Class 15X
Class 168/0	Class 168/1
	Class 168/2
	Class 168/3
	Class 17X

### ALTERNATIVE CHARGING OPTIONS

- 110 volt input supply
- 90/110 volt output supply

### MORE PRODUCTS IN OUR RANGE

- Heavy duty rail starter packs

### PLUS:

110V chargers, all trainside coupling connections, solutions for DMU, EMU and freight locomotives.

<b>Part Number</b>	<b>Description</b>	<b>Train Class</b>
800-BATT01	Battery Charger 240 Volt input, C/W 5 Mtr input cable/connectors	15X, 165, 166, 168/0, 168(123), 170/1, 172
800-BATT03	Battery Charger 415 Volt input C/W 5 Mtr input cable/connectors	15X, 165, 166, 168/0, 168(123), 170/1, 172
800-BATT101	5 Mtr Output lead C/W 100 Amp & 200 Amp Train Connectors	165, 166, 168/0, 168(123), 170/1, 172
800-BATT102	5 Mtr Output lead C/W 100 Amp Train Connectors	15X, 165, 166, 168/0
800-BATT103	5 Mtr Output lead C/W 200 Amp Train Connectors	168(123), 170/1, 172
800-BATT104	5 Mtr Output lead C/W Anderson Connector	15X, 165, 166, 168/0, 168(123), 170/1, 172
800-BATT105	300mm Output lead C/W 100 Amp Train Connector x Anderson Connector	15X, 165, 166, 168/0
800-BATT106	300mm Output lead C/W 200 Amp Train Connectors x Anderson Connector	168(123), 170/1, 172



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