



**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
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



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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.

Part Number	Description	Train Class
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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