



**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 lighting
- 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 : 14.5A @ 230VAC
Frequency : 47-63Hz \pm 5%

OUTPUT

Voltage : 24V nominal
Float : 28.5V – Wet batteries
: 27.9V – Gel batteries
Current : 100A
: 200A
Regulation : 0.5% (load and input charge)
Power Factor : > 90% at full load

ALARMS AND INDICATORS

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

SAFETY

- Selector Lockout once operational
- Output will disable if disconnected

ENVIRONMENTAL

Cooling	: Fan Cooled
Temperature	: -25 °C to +60 °C Operational Functional above +60 °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	: 540mm x 350mm x 400mm (HxDxW)
Weight	: Approx 35Kg
IP Rating	: IP23
Colour	: Yellow

CONNECTORS

Connections	: Mains input – 5m lead with IEC plug (Supplied)
	: DC output – 5m lead with Anderson style adaptor (Supplied)
	: 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

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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