



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

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

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)

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

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

Flotec Industrial Limited

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Website: www.flotecindustrial.co.uk

Online Store: www.floteconline.com

800-BATT07

29V Dual Current Rail Charger – 500A and 100A



- Battery charger for use on a wide range of 24V 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+N
Current : 16A @ 230VAC
Frequency : 47-63Hz \pm 5%

OUTPUT

Voltage : 24V nominal
Float : 28.2V – Gel batteries
: 29.0V – Wet batteries
Current : 50A
: 100A
Regulation : \pm 1%
Efficiency : > 90% at full load
Ripple : <300mVp-p

INDICATORS AND ALARMS

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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800-BATT11

110V Rail Charger – 40A



- Battery charger for use on a wide range of 110V 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.
- 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+N
Current : 30A @ 230VAC
Frequency : 47-63Hz \pm 5%

OUTPUT

Voltage : 110V nominal
Current : 40A nominal
Regulation : \pm 1%
Efficiency : > 90% at full load
Ripple : <300mVp-p

INDICATORS AND ALARMS

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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800-BATT17

110V Rail Charger – 22A – 110VDC input



- Battery charger for use on a wide range of 110V 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.
- Digital meters
- Indicator Beacon
- Standard panel mount AC input connector
- Heavy duty DC output connector
- Safety features built in

INPUT

Voltage : 110VAC
 Current : 30A
 Frequency : 47-63Hz \pm 5%

OUTPUT

Voltage : 110V nominal
 Current : 22A nominal
 Regulation : \pm 1%
 Efficiency : > 90% at full load
 Ripple : <300mVp-p

INDICATORS AND ALARMS

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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800-BATT18

74V Rail Charger – 40A



- Battery charger for use on a wide range of 74V 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.
- 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+N
Current : 30A @ 230VAC
Frequency : 47-63Hz \pm 5%

OUTPUT

Voltage : 74V nominal
Current : 40A nominal
Regulation : \pm 1%
Efficiency : > 90% at full load
Ripple : <300mVp-p

INDICATORS AND ALARMS

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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800-BATT18

Class 660/760

90V Rail Charger – 40A



- Battery charger for use on a wide range of 90V 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.
- 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+N
Current : 30A @ 230VAC
Frequency : 47-63Hz \pm 5%

OUTPUT

Voltage : 90V nominal
Current : 40A nominal
Regulation : \pm 1%
Efficiency : > 90% at full load
Ripple : <300mVp-p

INDICATORS AND ALARMS

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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800-BATT21

90V Rail Charger – 40A



- Battery charger for use on a wide range of 90V 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.
- 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+N
Current : 30A @ 230VAC
Frequency : 47-63Hz \pm 5%

OUTPUT

Voltage : 90V nominal
Current : 40A nominal
Regulation : \pm 1%
Efficiency : > 90% at full load
Ripple : <300mVp-p

INDICATORS AND ALARMS

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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800-BATT06

Class 175/180

29V & 110V Dual Voltage Rail Charger



- Dual battery charger for use on a wide range of 24V & 110V 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 : 415VAC 3PH+N
Current : 32A
Frequency : 47-63Hz \pm 5%

OUTPUT

Voltage : 24V nominal
Current : 100A
Voltage : 110V nominal
Current : 80A
Regulation : \pm 1%
Efficiency : > 90% at full load
Ripple : <300mVp-p

INDICATORS AND ALARMS

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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CERTIFIED
DISTRIBUTOR



SELF-POWERED BATTERY CHARGER



- 5.0kW rated output
- 110V/230V, 50Hz rated voltage
- Automatic voltage regulation
- Recoil/electric start
- 2x110 & 1x230V 32 Amp outlets
- 12V, 8.3A DC output
- 9 hours running time
- 25 litre fuel capacity
- 76 dBA noise rating
- Rated to ISO 8528-13 and IP23M

Units can be supplied with the following charger configuration:

- 800-BATT01
- 800-BATT03
- 800-BATT04





EST: 1995
EMPLOYEE OWNED

PORTABLE TRAIN FLEET BATTERY CHARGER

FOR CLASSES:
150 | 166 | 170

**DESIGNED FOR
OUTSTATION USE!**

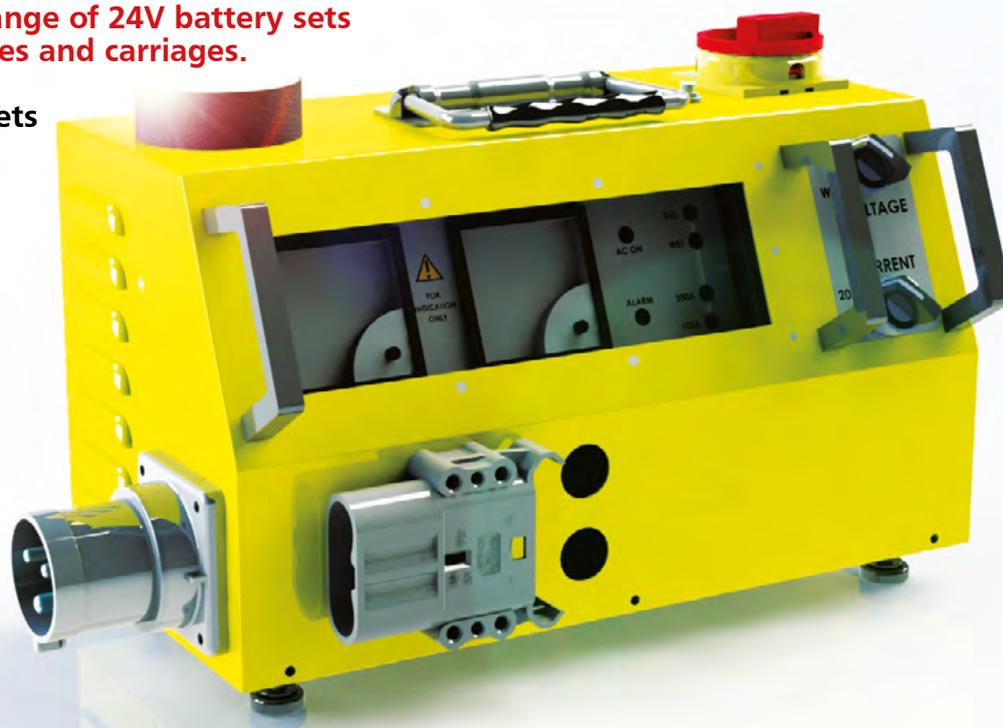
29V Portable Rail Charger

50A and 100A



Battery charger for use on a wide range of 24V battery sets
for passenger and freight locomotives and carriages.

- 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



CODE: 800-BATT07

TECHNICAL DATA

29V Portable Rail Charger – 50A and 100A

INPUT

Voltage : 230VAC (90-264) Single Phase or
415VAC 3PH (option)
Current : 14.5A @ 230VAC
Frequency : 47-63Hz \pm 5%

OUTPUT

Voltage : 24V nominal
Float : 28.2V – Wet batteries
: 29.0V – Gel batteries
Current : 50A
: 100A
Regulation : \pm 1%
Efficiency : > 90% at full load
Ripple : <300mVp-p

PROTECTION

Input : Mains Isolator
: 32A MCB
Over Load Protection : 105%
Over Voltage Protection : 120% \pm 7%
Over Temperature Protection : 85 oC \pm 5 oC
Short Circuit Protection
Fan Fail Alarm

SAFETY

Selector Lockout once operational
Output will disable if disconnected

INDICATORS AND ALARMS

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

ENVIRONMENTAL

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

MECHANICAL

Size : 220mm x 200mm x 400mm (HxDxW)
Weight : Approx <9Kg
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)

Notes:



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