



Ebbett Automation Ltd

BATTERY CHARGER

SPECIALLY FOR MARINE & INDUSTRIAL



Precision Charging For Improved Battery Performance

- * Industrial-quality design
- * Robust, lightweight, portable or permanent mounting
- * Fully automatic for unattended operation
- * Dual output option
- * DC power supply / battery eliminator option

Specially developed charging system for modern, sealed, automotive, marine, industrial, and other batteries.

For optimum performance and long life, batteries must be correctly charged. The Ebbett battery charger provides a fully automatic, intelligent, 3 stage, charging regime (bulk-absorption-float / maintenance) preset exactly to the specified battery. Voltage regulation is precise and the maximum current taper is very steep so batteries receive maximum current for as long as possible before becoming fully charged. Overall recovery time is therefore minimal.

Main Features

- * **Constant Voltage**
- * **Current Limited**
- * **Intelligent Boost-Charge**
- * **Reverse Polarity Protection**
- * **Short-Circuit Protection**
- * **Floating Output**
- * **Portable or Permanent Installation**
- * **Conservative Rating**
- * **RFI Suppression**
- * **Output Filter for Reduced Battery Current-Ripple and Increased Battery Life**
- * **Minimal Power Devices**
- * **Tolerant of Hostile Environments**

29/8/01 - Specification subject to change without notice

Technical Specification

Output Load:	200VA	400VA	800VA	1600VA
Output Voltage:	12V 24V	12V 24V	12V 24V	24V
Rated Time 2hrs:	15A 8A	25A 15A	45A 25A	45A
Cont Pwr Spply Optn:	10A 5A	15A 10A	30A 15A	30A
Weight:	10kg	12kg	15kg	20kg
Physical Dimensions: (H x W x D)	300x210x100	320x230x115	360x340x145	360x340x190

Regulation:	Within plus or minus 1%.
Input Voltage:	220-240V / 110-120V selectable.
Frequency:	50-60 Hz.
Ambient Temp:	0-50 deg C normal mount heat sinks vertical. Above 20 deg C derate duty cycle 1% per deg C. Horizontal mount, derate 15%. Fan cooling increase rating 20%.
Operating Humidity:	0-90%.
Power Input:	2m flex & 3 pin plug.
Battery Leads:	2m cable & battery clips.
Enclosure:	Mild steel epoxy powdercoated.
Protection:	Electronic current-limiting. Thermal overload with auto-reset. Miniature circuit-breaker for output isolation.
Elec Safety:	Manufactured to NZS 6200 requirements. Complies with NZECP 29:1989, Boat Mariners & Pleasure Craft; NZECP 1:1988, Caravans & Caravan Parks.
Elec Interference:	RFI emission less than 60 microvolts. Output filtered to minimise battery ripple-current.
Options:	Mounting straps for permanent installation. Ammeter, Voltmeter. Standard specified voltages. Output factory set for float-charging. Other voltages & currents available. Separate isolated outputs for dual battery system. No automatic boost-charge on power up. Extra output-filter for DC power supply.

Applications Guide

Marine batteries on shore power
Industrial standby power systems
Emergency lighting sets

Note:

For accurate charging, leads should be kept less than 2m.

Output leads of dual-output chargers should be parallel-connected if used on single battery-banks.

Reduced current-limit settings should be specified for small sealed batteries.

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