

DC SERIES

Battery Charger

Latronics™ Battery Chargers are fully automatic and suitable for most charging applications. These microprocessor controlled intelligent chargers have 2 major benefits compared with conventional chargers.

Accurate 5 stage charging allows maximum charge into your batteries to minimise charge time, while additional sensitive charging cycles protect your investment by extending battery life.

Higher efficiency with synchronous rectification. Instead of using standard diodes in the rectification process, low loss Mosfets are used to minimise internal losses. This wasted energy would normally be dissipated as heat, however, with synchronous rectification your charger runs cooler and requires less power to operate.

How It Works

1. Boost Mode

Is a high current, high voltage charging cycle to allow maximum charge into the battery as quickly as possible.

2. Absorption Mode

The high voltage is maintained while the current is reduced, until the battery is charged to its maximum capacity.

3. Float Mode

The battery is now held at an optimal voltage with a small trickle charge, ensuring the battery is ready for action.

4. Silent Mode

Remaining in float charge indefinitely has been shown to reduce battery life. Silent mode removes all charging and allows the battery to settle naturally, maximising the life of your battery. The battery is then continuously monitored and automatically topped up as required.

5. Equalisation Mode

Every 90 days an equalisation cycle is performed to ensure that all cells in the

battery are all at an equal state of charge. This prevents battery stratification while also reducing sulphation.

LED Indicators

No more guess work, the charging mode and fault conditions are clearly displayed.

Wall Mount Design

Allows flexibility and ease of installation.

Battery Type Selector

Easy charging for Flooded Cell, Sealed Lead Acid, Gel, AGM and Lead Calcium batteries.

Full Electronic Protection

Sophisticated circuitry provides protection against overload, short circuit, over voltage, under voltage, over temperature and reverse polarity.

Reliability

Engineered using high quality components and manufactured to stringent quality standards ensures optimum reliability, backed by a full 2 year parts and labour warranty.

DC Circuit Breaker

Provides full isolation from your batteries along with the important safety of a 'No Spark' - battery connection.

Also protects the cables from becoming a potential fire hazard under fault conditions.

Durable Construction

Latronics battery chargers are a quality industrial product customisable to withstand vibration and constant movement in mobile or marine installations, as well as the diverse range of home or commercial applications.



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Corrosion Conscious Design

Latronics Inverters are built for extreme environments using a recyclable powder coated aluminium casing, a more noble metal than steel.

Temperature Compensation

Batteries can be actively charged in both warm and cold climates.

High Efficiency Toroidal Transformer

Toroidal transformers provide the highest efficiency and durability.

AC/DC Isolation

Full 3500V AC/DC isolation.

MODEL SPECIFICATIONS

Model	DC-1230	DC-2415
Nominal DC Voltage	12V	24V
Charge Current Continuous	30A	15A
Equivalent RMS Current	45A	22A
Boost Voltage	13.9 - 15.2V	27.8 - 30.4
Absorb Voltage	13.9 - 15.2V	27.8 - 30.4
Float Voltage	13.0 - 14.0V	26.0 - 28.0
Equalise Voltage	14.8 - 15.4V	29.6 - 30.8
Input Voltage	240Vac +/- 5%	240Vac +/- 5%
Input Frequency	45 - 65 Hz	45 - 65 Hz
Operating Temperature	-10°C to +50°C	-10°C to +50°C
DC to AC Isolation	3500V	3500V
Battery Leads	1m long with 10mm mounting lugs	1m long with 10mm mounting lugs
Protection Circuitry	Over temperature, overload/short-circuit, reverse polarity	Over temperature, overload/short-circuit, reverse polarity
Dimensions (mm)	260 mm x 160 mm x 100 mm	260 mm x 160 mm x 100 mm
Chassis	Powder coated aluminium	Powder coated aluminium
Warranty	2 years	2 years
Standards	AS3100, EN55014 & C-tick	AS3100, EN55014 & C-tick
Weight	5kg	5kg
Ratings	Specifications @ 25°C ambient, nominal battery voltage and unity power factor	

Products

DC-1230
12V

DC-2415
24V



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