

UniCharge 50

Automatic Battery Charger

INSTALLATION INSTRUCTIONS

IMPORTANT

This device is to be installed and operated by skilled and qualified personnel ONLY and in compliance with current standards to avoid damage and safety hazards.

For use within specified parameters only.

Ensure adequate air-flow over all sides of case.

Do not install in proximity of explosive gasses or flammable materials.

Isolate the AC input supply and battery before any connection or disconnection to the units terminals.

DESCRIPTION

The UniCharge 50 battery charger and power supply is designed for trickle charging most battery types and has a constant current / constant voltage characteristic.

Output float voltage is preset at the factory to 13.6V (12V units) or 27.2V (24V units). The output voltage is user adjustable but MUST be set in accordance with the battery manufacturers recommendations. The charger is designed for continuous 24-7 unattended operation.

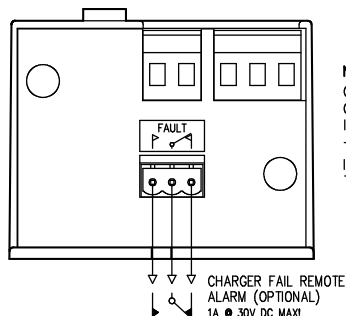
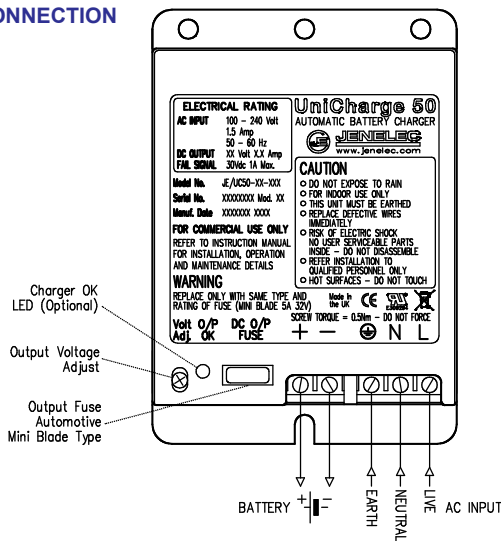
INSTALLATION

The charger should only be installed in electrical panels having covers or doors. Adequate ventilation should be considered.

Mount the unit on a flat surface in any orientation.

The charger is fixed using 2 or 3 No. M4 screws through the preformed holes in the mounting flanges (the preferred mounting is with 3 screws for added security). Leave at least 15mm of space on all sides for adequate heat dispersion and free air convection.

CONNECTION



Ensure that the AC supply and battery are isolated before connection. It is good practice to install the charger close to the battery and to use conductors of sufficient cross-section to minimise voltage drops (thus maximising the battery charge). The chargers terminals will accept a 4mm² cable.

INPUT RATING	Parameter	Value
INPUT RATING	Voltage Range	100 - 240V AC
	Frequency	50 - 60Hz
	Input Current	1.5A
	Inrush Current	60A
	Leakage Current	<1.0mA @ 240V AC

OUTPUT RATING	12V Types:	13.6V (Adjustable) 3.5A Continuous (4.0A peak)
	24V Types:	27.2V (Adjustable) 2.0A Continuous (2.5A peak)
	Ripple & Noise	<0.5%
	Line Regulation	±1%
	Load Regulation	±1%
	Efficiency	77% - 80%

OPERATING CONDITIONS	Operating Temperature	-10 to +50 °C
	Storage Temperature	-20 to +80 °C

CONNECTION	Rising clamp terminals.
	Maximum cable cross-section = 4.0mm ²

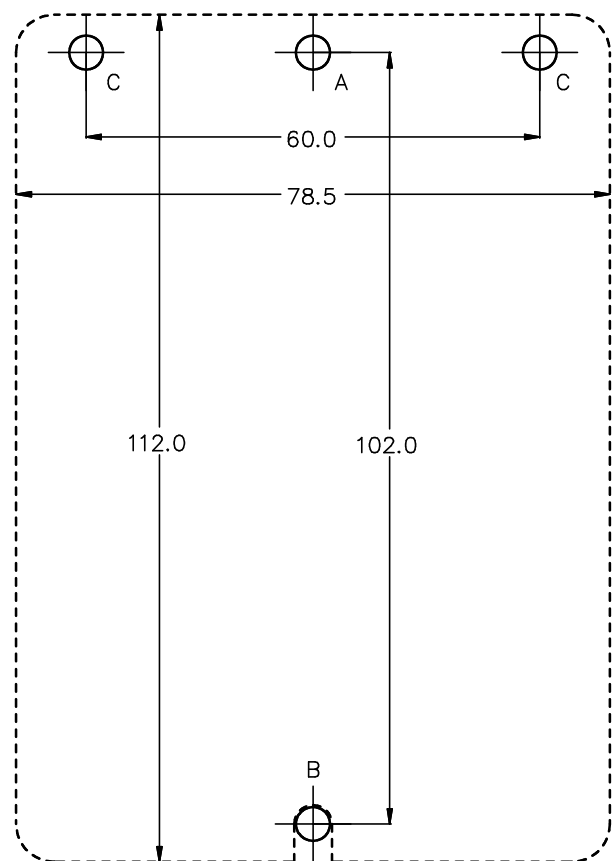
OUTPUT FUSE	Automotive 'Mini-blade' type 5 Amp.
	WARNING - REPLACE ONLY WITH THE SAME TYPE AND RATING OF FUSE.

ENCLOSURE	High impact ABS plastic, black finish.
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WEIGHT	1 Kg
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DIMENSIONS	78.5 wide, 112 high, 64.5 deep (millimetres)
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MOUNTING TEMPLATE - Actual Size



For 2 hole mounting use holes A and B
 For 3 hole mounting use holes B and C
 All holes = M4 fixing

JENELEC
 Europe Ltd
 INDUSTRIAL POWER SOLUTIONS

Fuller Road - Industrial Estate
 Harleston - Norfolk - IP20 9EA
 Tel. 01379 853666
 Fax. 01379 854414
 E-Mail. sales@jenelec.co.uk
 Web. www.jenelec.com

