

InteliCharger 65/12 A



Order code: ICHG-65-12-A

Automatic charger for 12 V batteries

Datasheet

Product description

Two stage automatic battery charger 12 V / 6 A without fail relay.

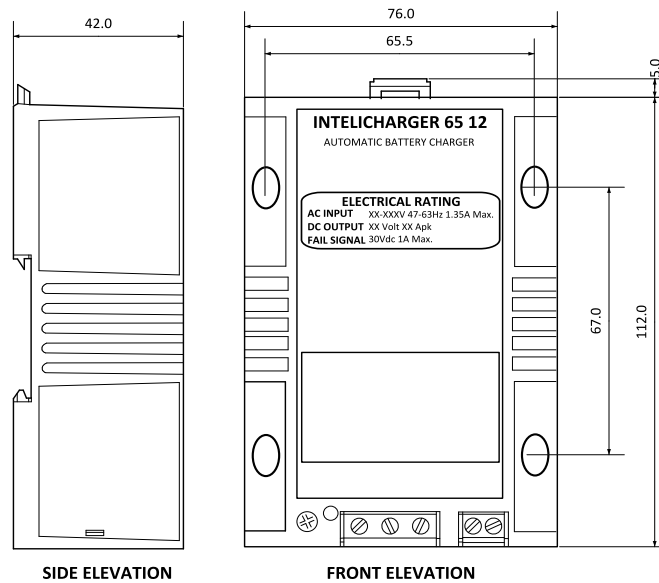
The InteliCharger 65/12 A provide a cost effective solution to most industrial battery charging requirements. The two stage (constant current – constant voltage) characteristic ensures accurate and efficient battery charging. The charger is designed for permanent connection to the batteries maintaining a fully charged condition without overcharging. Device can be also set as power supply.

Key features

- Micro-processor control
- Fully automatic operation
- Cost effective
- Float Voltage adjust potentiometer
- Protections: Short circuit, Overload, Over voltage, Over temperature, Reverse battery
- Compact size – DIN rail mounting
- Sealed electronic construction
- Robust & high reliability
- Power Supply mode (can be used as a standalone power supply)
- Universal AC input ranges

- Low ripple output
- Passive cooling

Dimensions, terminals and mounting



Note: Dimensions are in mm.

Note: It must be ensured that the battery charger is mounted vertically for proper function of passive cooling of the charger.



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Technical data

Battery charger input

Nominal Input Voltage	90 to 264 V _{AC}
Frequency	47 to 63 Hz
Input Current	1.5 A rms max.
Leakage Current	None

Battery charger output

Nominal Voltage	12.0 V
Float Charge voltage	13.8 V
Boost Float Voltage	+4 V
Max Charging Current	6.0 A
Ripple & Noise	±0.5 %
Line Regulation	±1.0 %
Load Regulation	±1.5 %0
Efficiency	Up to 90 %

Operating conditions

Operating Temperature	-10 °C to +50 °C
Operating Humidity (25 °C, no condensation)	20 to 90 % RH
Storage Temperature	-20 °C to +85 °C
Storage Humidity	10 to 95 % RH
Withstand Voltage	Input – Output 1.5 kV AC
Isolation Resistance	Input – Output 500 V DC / 100M Ω

Dimensions

Case	A rugged plastic case for DIN rail mounting.
Dimensions (w × h × d)	76 mm × 112 mm × 42 mm (2.99" × 4.41" × 1.65")
Weight	approx. 0.40 kg (0.88 lbs)

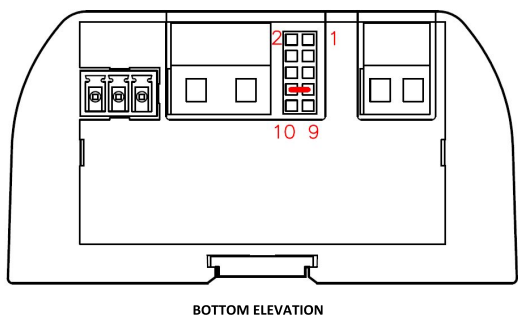
Protections

Overload Protection	Constant Current Limit/Fold back
Over Voltage Protection	105 % - 125 % Shutdown. Recycle I/P to restart
Over Temp. Protection	Output shutdown with automatic recovery
Reversed Battery Protection	Automatic protection. Disabled when in PSU mode.

Alarms and Levels

AC / Charger Fail	Loss of AC input or DC output voltage ctrl
Low DC Voltage Alarm	Float Voltage -12 % Alarm, -8 % Reset
High DC Voltage Alarm	Float Voltage +7 % Alarm, +5 % Reset
Over Voltage Protection	Float Voltage +10 %, instant SD
Battery Disconnected	Open circuit on DC output

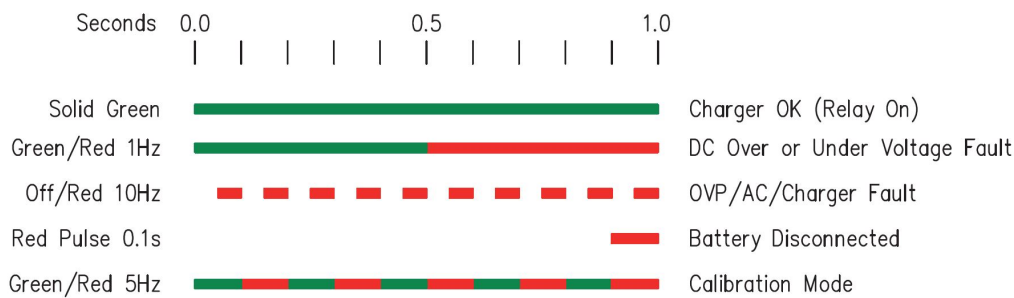
Power supply mode



- > To activate Power supply mode connect pin 7 and 8.
- > No connection (Default) = Charger mode

Calibration

1. Disconnect the battery. Connect a DC voltmeter to the \pm output terminals.
2. Turn the "CAL" potentiometer fully anti-clockwise. When the status LED flashes green/red @5 Hz, adjust the "CAL" potentiometer and set the desired float voltage level.
3. When the LED red/green @5 Hz flash sequence ends, the unit is calibrated.



Certificates and standards

<ul style="list-style-type: none">> EN 62368-1> EN 61000-6-2> EN 61000-6-4	<ul style="list-style-type: none">> CSA C22.2 No. 107.2-01> UL 1236	<div>CE</div> <div>UK CA</div> <div>C[®]UL[®]US</div>
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