

## InteliCharger 65/24 A



Order code: ICHG-65-24-A

## Automatic charger for 24 V batteries

# Datasheet

### Product description

Two stage automatic battery charger 24 V / 3 A without fail relay.

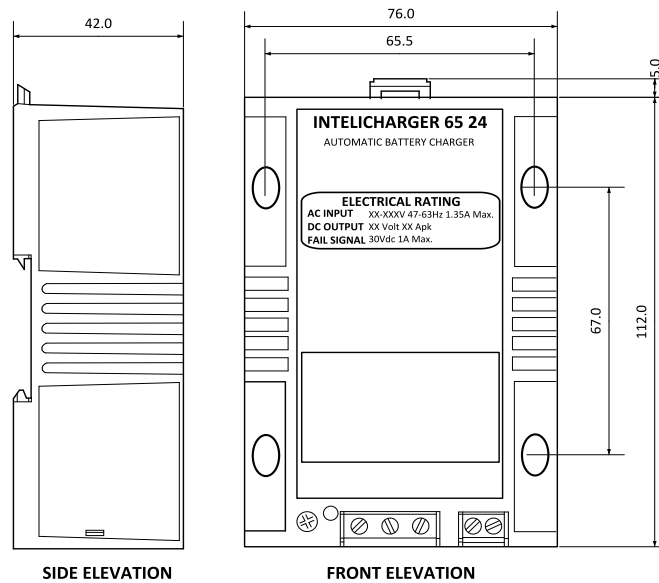
The InteliCharger 65/24 A provide a cost effective solution to most industrial battery charging requirements. The two stage (constant current – constant voltage) characteristic ensures accurate and efficient battery charging. The charger is designed for permanent connection to the batteries maintaining 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 <sub>AC</sub>
Frequency	47 to 63 Hz
Input Current	1.5 A rms max.
Leakage Current	None

## Battery charger output

Nominal Voltage	24.0 V
Float Charge voltage	27.6 V
Boost Float Voltage	+4 V
Max Charging Current	3.0 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)

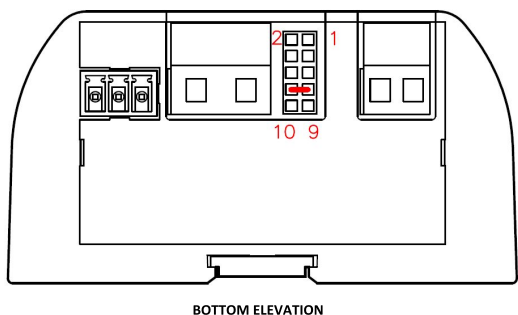
## Protections

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

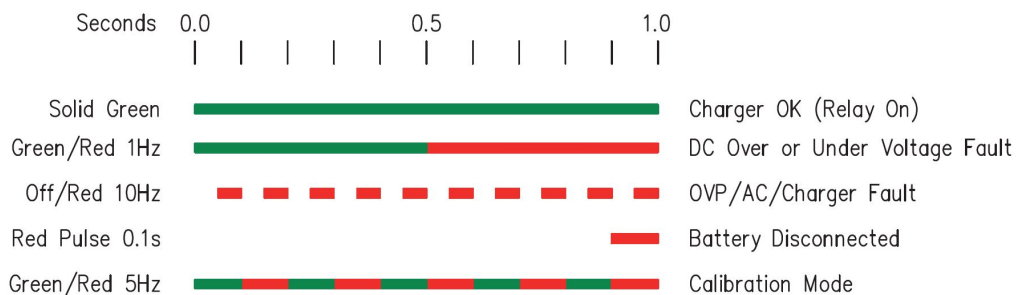
## Power supply mode



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