

## InteliCharger 65/24 AF



Order code: ICHG-65-24-AF

## Automatic Battery Charger

# Datasheet


### Product description

Automatic battery chargers 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 and is designed for permanent connection to the batteries maintaining them in a fully charged condition without overcharging. Device can be also set as power supply.

### Key features

- ▶ Cost effective
- ▶ Micro-processor control
- ▶ Compact size – DIN rail mounting
- ▶ Sealed electronic construction
- ▶ Robust & high reliability
- ▶ Fully automatic operation
- ▶ Power supply mode
- ▶ Universal AC input ranges
- ▶ Low ripple output
- ▶ Passive cooling
- ▶ Fail alarm contact set

### Certifications and standards

▶ EN 62368-1	
▶ EN 61000-6-2	
▶ EN 61000-6-4	
▶ UL 1236 Edition 8	
▶ CSA C22.2 No. 107.2-01	
▶ RoHS 3 Directive (EU 2015/863)	

# Technical data

## Operating conditions

<b>Working Temperature</b>	-10 °C to +50 °C
<b>Working Humidity</b>	20 to 90 % RH
<b>Storage Temperature</b>	-20 °C to +85 °C
<b>Storage Humidity</b>	10 to 95 % RH
<b>Unpacked Weight</b>	400 g
<b>Withstand Voltage</b>	Input – Output 1.5 kV AC
<b>Isolation Resistance</b>	Input – Output 500 V DC / 100MΩ

## Protections

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

## Input Specification

<b>Voltage Range, V<sub>IN</sub></b>	90 to 264 V AC
<b>Frequency</b>	47 to 63 Hz
<b>Input Current</b>	1.5 A rms max.
<b>Leakage Current</b>	None

## Output Specification

<b>Voltage/Current</b>	24.0 V Nominal 3.0 Apk
<b>Ripple &amp; Noise</b>	±0.5 %
<b>Line Regulation</b>	±1.0 %
<b>Load Regulation</b>	±1.5 %0
<b>Efficiency</b>	Up to 90 %

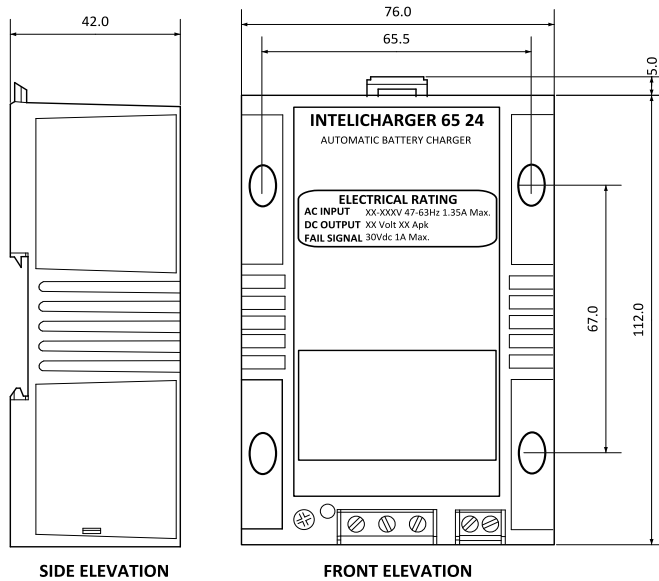
## Fault Relay is active, if

▶ DC short circuit
▶ Battery voltage lower than 95 % of nominal voltage
▶ Charger is switched OFF (* in case of DC connected, it takes longer time to switch to NC status)

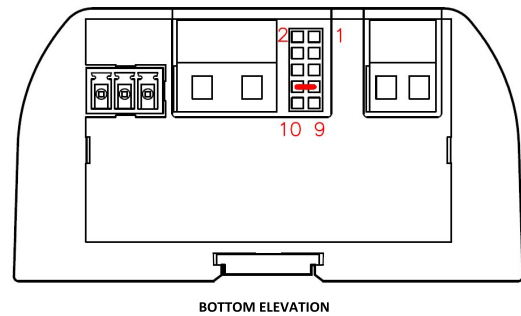
## Alarms and Levels

<b>DC Output Voltages</b>	Float = Factory set to 27.6 V Boost = Float Voltage +4 V
<b>AC / Charger Fail</b>	Loss of AC input or DC output voltage ctrl
<b>Low DC Voltage Alarm</b>	Float Voltage -12 % Alarm, -8 % Reset
<b>High DC Voltage Alarm</b>	Float Voltage +7 % Alarm, +5 % Reset
<b>Over Voltage Protection</b>	Float Voltage +10 %, instant SD
<b>Battery Disconnected</b>	Open circuit on DC output

## Dimensions, terminals and mounting



### Power supply mode



To activate Power supply mode connect pin 7 and 8.

No connection = Default = Charger mode

**Note:** Dimensions are in mm.

### 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.

