

## InteliCharger 120 12-24

Order code: ICHG-120 12-24

## Automatic battery charger

# Datasheet

### Product description

The IntelliCharger 120 12-24 is an advanced, automatic, multi-stage battery charger using “Switched mode technology” and “Battery care technology”, suited to meet the most advanced requirements of battery manufacturers.

### Key features

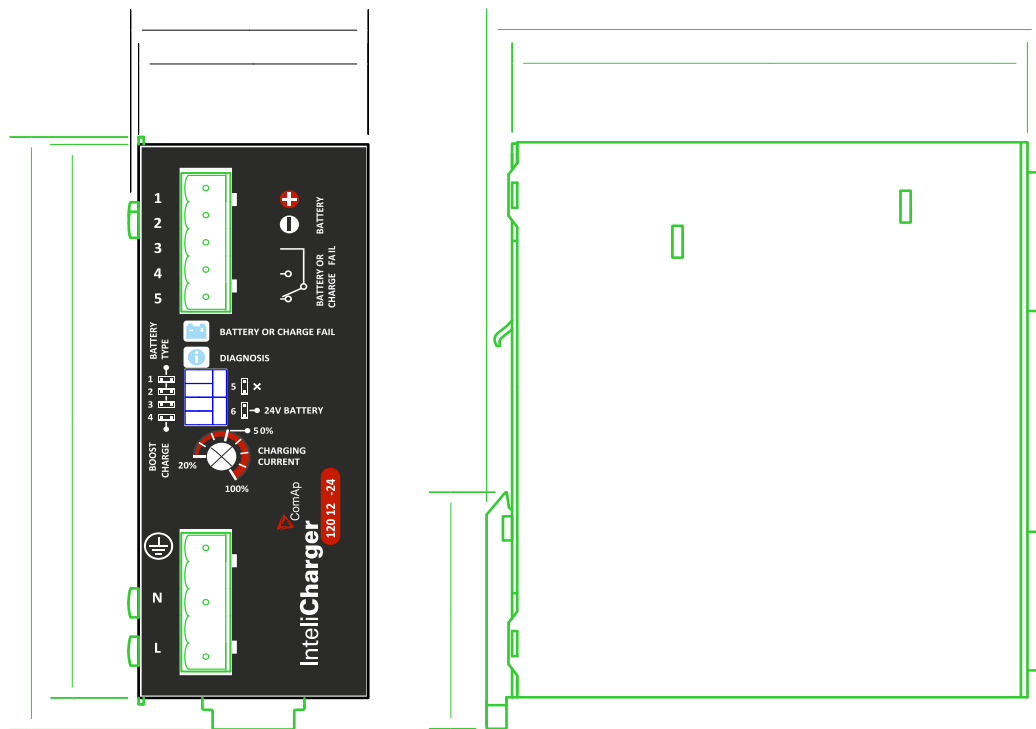
- ▶ 24 V / 5 A or 12 V / 6 A nominal output (dual voltage)
- ▶ Adjustable voltage and current output
- ▶ Universal AC input range
- ▶ Automatic battery status diagnosis
- ▶ Microprocessor controlled charging algorithm
- ▶ Four charging stages
  - Recovery, Bulk, Absorption, Float
- ▶ Blink code diagnostic LED
- ▶ Fail alarm relay, signal output terminal for discharged or damaged battery and charging fail signaling.
- ▶ Charger can be used as a standalone power supply
- ▶ Passive cooling (fanless)
- ▶ IP20 protection

- ▶ DIN rail mounting
- ▶ UL recognized

### Certifications and standards

IEC/EN 60950 (VDE 0805)	EN 61000-3-2
EN 50178 (VDE 0160)	EN 60204-1
IEC/EN 60950	UL1236
SELV EN 60950-1	IEC/EN 60335-2-29 Battery chargers
PELV EN 60204-1	EN60950 / UL1950
EN 61000-4-2	Electrical safety EN54-4 Fire Detection and fire alarm systems
EN 61000-4-3	89/336/EEC EMC Directive
EN 61000-4-4	2006/95/EC (Low Voltage)
EN 61000-4-5	DIN41773 (Charging cycle)
EN 61000-6-4	IEC 61000-6-4
EN 61000-6-3	IEC 61000-6-2
This product is CE compliant	

## Dimensions, terminals and mounting



## Technical data

### Operating condition

Operating temperature	-25°C to +70°C
Storage temperature	-40°C to +85°C
Max humidity (25 °C)	95%
IP protection class	IP20 (EN/IEC 60529)
Reliability	> 300 000 h (MTBF IEC61709)

### Output parameters

Output $V_{DC} / I_n$	12 $V_{DC} / 6A$ 24 $V_{DC} / 5A$
Efficiency (50% of $I_n$ )	≥90 %
Ripple voltage	≤80 mV <sub>pp</sub>

### Protections

Shor circuit protection	Yes
Overload protection	Yes
Overvoltage output protection	Yes
Reverse battery polarity protection	Yes
Detection of cell in short-circuit	Yes
Thermal protection	Yes
Protection	Class I (with PE connected)

### Input parameters

Nominal Input voltage	115 / 230 $V_{AC}$
Input voltage range	90–305 $V_{AC}$
Inrush current ( $V_n$ and $I_n$ load)	≤16 A, ≤5 ms
Frequency	47–63 Hz ±6%
Input current (115-230 $V_{AC}$ )	2.4–1.2 A
Internal fuse	4 A
Recommended external fuse	10 A (MCB curve B)

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