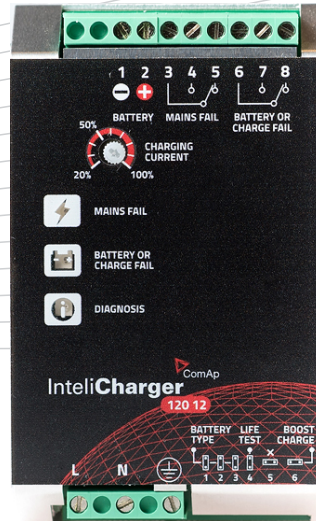


InteliCharger 120 12



Order code: ICHG-120 12

Automatic Battery Charger

Datasheet

Product description


The InteliCharger 120 12 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

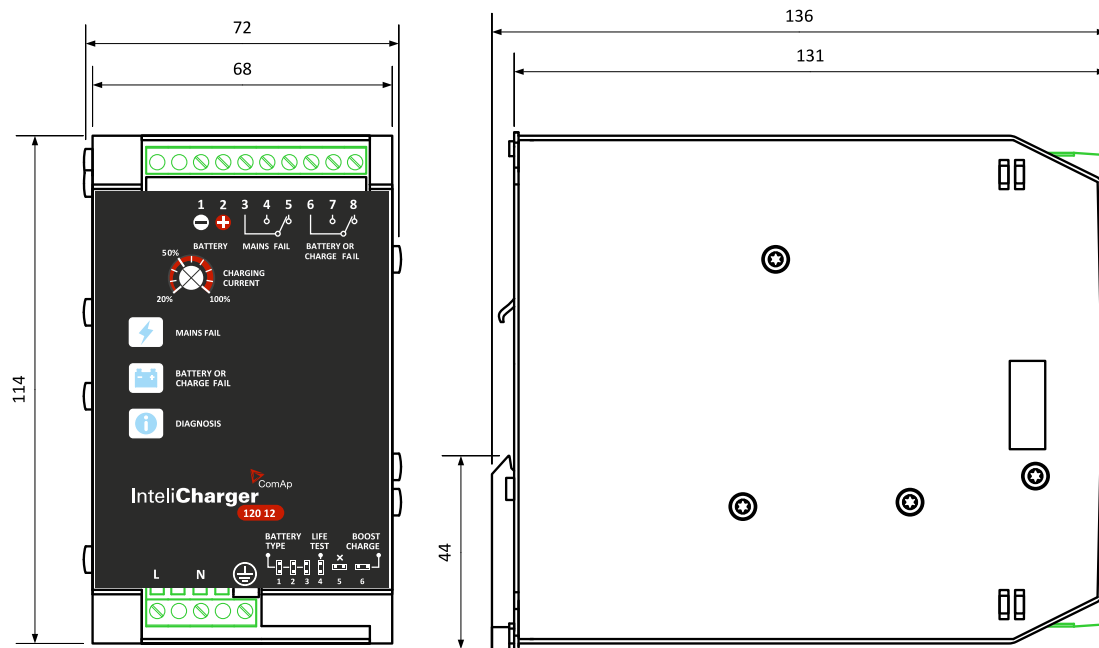
- ▶ Wide input voltage range.
- ▶ Battery charging output 12V: 2-10A
- ▶ Suited for the following battery types: Open Lead Acid, Sealed Lead Acid, Lead Gel and NiCd–NiMH.
- ▶ Automatic battery status diagnosis
- ▶ Microprocessor controlled charging algorithm
- ▶ Four charging stages
 - Recovery/Bulk/Absorption/Float
- ▶ Switched mode power supply technology.
- ▶ High efficiency (≥ 89 %).
- ▶ Protected against short circuit, reversed polarity, overload and over temperature.
- ▶ Signal output terminal (voltage free contact) for discharged or damaged battery and charging fail signaling.
- ▶ Signal output terminal (voltage free contact) for Mains power input fail signaling.

- ▶ IP20 protection.
- ▶ DIN rail mounting

Certifications and standards

EN 60950 (VDE 0805)	61000-6-4
EN 50178 (VDE 0160)	EN 61000-6-3
EN 60950	EN 61000-3-2
SELV EN 60950-1	EN 60204-1
PELV EN 60204-1	EN 60335-2-29 Battery chargers
EN 61000-4-2	Electrical safety EN54-4
EN 61000-4-3	89/336/EEC EMC Directive; 2006/95/EC (Low Voltage)
EN 61000-4-4	DIN41773 (Charging cycle)
EN 61000-4-5	Emission: IEC 61000-6-4
Immunity: IEC 61000-6-2	
This product is CE compliant	

Dimensions, terminals and mounting



Note: Dimensions are in mm.

Technical data

Operating conditions

Operating temperature	-30 °C to +70 °C
Storage temperature	-40 °C to +85 °C
Operating humidity (25 °C)	95 %
Protection degree	IP20
Reliability (MTBF IEC 61709)	> 300 000 h
Protection	class I (with PE connected)

Protections

Short-circuit protection	YES
Overload protection	YES
Overvoltage output protection	YES
Reverse battery polarity protection	YES
Detection of element in short-circuit	YES
Thermal protection	YES
NO-NC contact	YES

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)

Output parameters

Output V _{DC} / I _N	12 V _{DC} / 10 A
Efficiency (50 % of I _N)	≥ 89 %
Ripple voltage	≤ 80 mV _{PP}

