

Order code: **BC224V20BOB**

Datasheet

Product description

The IntelliCharger 480 24 20A is an advanced, automatic, multi-stage battery charger using "Switched mode technology" and "Battery care philosophy", suited to meet the most advanced requirements of battery manufacturers.

The battery care concept is based on algorithms that implement automatic battery charging, battery life optimization, flat batteries recovery and real time diagnosis. The real time auto-diagnostic system monitors battery faults such as cells in short circuit, accidental reverse polarity connection, disconnection of the battery.

These faults can be easily detected and fixed by help of blink code of diagnostic LED during the charger installation and operation. Charger is suited for all battery types. By jumper setting it is possible to change parameters of charging curve for: Open Lead Acid, Sealed Lead Acid, Gel, Ni-Cd and Li-ion battery type. A rugged casing with bracket for DIN rail mounting provides IP20 protection degree.

Key features

- Suited for the following battery types: Open Lead Acid, Sealed Lead Acid, Lead Gel Li-Ion.
- Automatic battery status diagnosis.
- Four charging stages: Recovery, Boost, Absorption and Float. Switched mode power supply technology for battery charging.
- Power Supply mode.

- High efficiency ($\geq 91\%$).
- Protected against short circuit, reversed polarity, overload and over temperature.
- Signal output terminal (voltage free contact) for faulty battery state, for Main's power input fail signaling.
- IP20 protection.
- Temperature compensated charging.
- MODBUS RTU communication.
- DIN rail mounting.

Standards and certifications

EN 60950 (VDE 0805)	EN IEC 62368-1
EN 50178 (VDE 0160)	EN 61000-3-2
SELV EN 60950-1	EN60950/ UL60950-1
PELV EN 60204-1	EN 61000-4-3
EN IEC 62368-1: 2014/AC:2015	EN 61000-4-2
EN IEC 62368-1	

Technical data

Input Data

Nominal Input Voltage (2 x Vac)	115 – 230 – 277
Input Voltage range (Vac)	90 – 135 / 180 – 305
Frequency	47 – 63 Hz
Input Current (115 – 230 Vac)	9 – 4.5 A
Internal Fuse	10 A
External Fuse (recommended)	16 A

Output Data

Boost charge (25 °C)	Lead Acid: 28.2 V NiCd: 29 V Li-Ion: 29.2 V
Trickle charge (25 °C)	Open Lead Acid: 26.7 V Sealed Lead Acid: 27 V Lead Gel: 27.6 V NiCd: 28 V Li-Ion: 27.6 V
Recovery Charge	2 – 20 V DC
Charging. Max	20 A, 5 %
Efficiency (50% of nominal)	91 %
Power Supply Mode	Yes

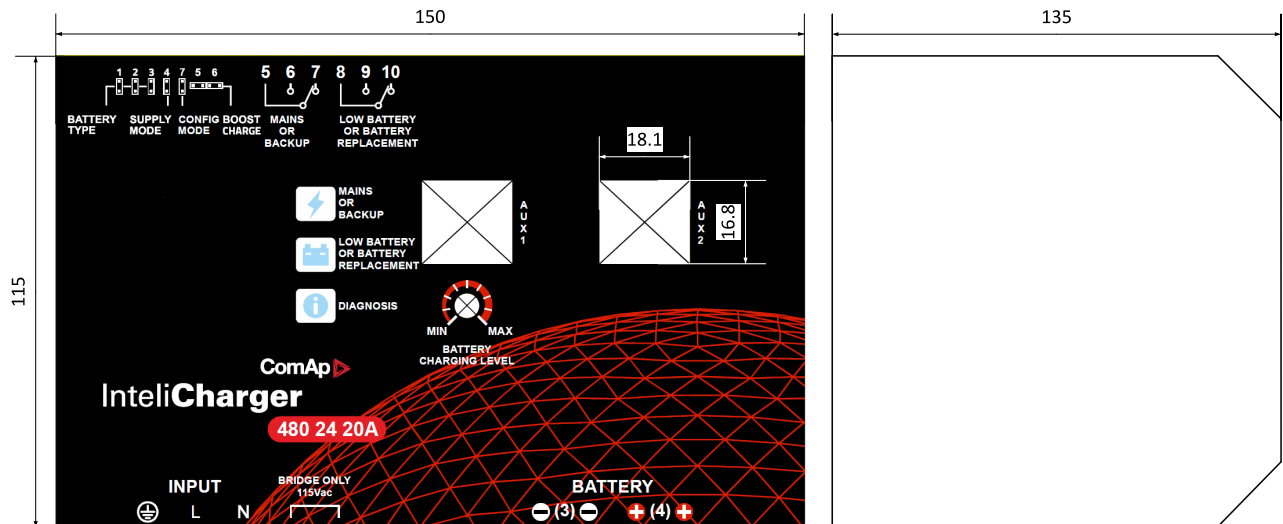
Operating Conditions

Ambient temperature (operation)	-25 ÷ +70 °C
De Rating Ta > 50 S°C	-2.5%(In) / °C
Ambient temperature Storage	-40 ÷ +85 °C
Humidity at 25 °C no condensation	95% to 25 °C
Cooling	Auto Convection
Protection Class (EN/IEC 60529)	IP20
Pollution Degree Environment	2
Dimensions (w-h-d)	150 × 115 × 135 mm
Weight	1.5 kg approx.

Protections

Detection of element in short circuit	Yes
Short-circuit protection	Yes
Overload protection	Yes
Over Voltage Output protection	Yes

Dimensions



Note: All dimensions are in mm.