

11 kW DC-Wallbox



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Specifications

DC-Wallbox Version: 11 kW Max. power:

3 Phases, 400V AC (Europe) AC Input Voltage level:

AC Input voltage tolerance: +-10% (Static) Power factor: >= 99% **Total Harmonic Distortion (THD):** <= 5% 120 - 500V DC DC Output voltage:

DC Output Current: 30A

DC Output Current ripple: <+-3% max. current AC/DC Topology: Active 3 Ph PFC, bidirectional

DC/DC Topology: Isolated, bidirectional DC/DC Converter Input Voltage stage: Phase management and DC input

Galvanic isolation (Basic isolation Input to Output) Safety and Protection:

Rapid discharge DC Output Over current monitoring

Reverse polarity protection

DC Output Fuses

Temperature monitoring Isolation monitoring

Lifetime: 10+ years Standby operation time: 100.000 hours

Active operation time: >21.000 hours (according OEM standard use case)

Charge controller:

Communication to car: CCS, PLC, PWM, Control Pilot, Proximity Pin

Self-test

Diagnose: Remote, OCCP

to Backend/CPO: OCPP2.0, HTTPS (Websockets etc.)*, MQTT* to

EMS OCPP, Modbus TCP*, RS485/RS232, Smart

Home protocols* Ethernet (LAN)

Data interfaces: Weight: <25kg

< 583mm x 346mm x 195mm **Dimensions:**

Operating temperature: -25 to +50°C **Humidity:** Up to 95 %

Operation height: 2000m over sea level Cooling concept: active (air cooling, fans)

@1m, full load, <25 dB (A) @ <40 °C Noise:

IP Class: IP54 enclosure

According to EN61000-6-2 / EN61000-6-3 EMC: Norms and Standards: IEC Version: IEC61851, SAE1772 / UL Version: UL2202

Certifications: CE for European market

*on request

Options

CCS Combo1 CCS Combo2

Stand / post for free stand mounting

Branding / Customization

Labels Front cover Interface Housing

Features

Bidirectional V2G/V2H operation ISO 15118 compatible Integrated charge controller Grid compliant

The ambiCHARGE DC-Wallbox turns your electric vehicle into a battery on wheels. With years of experience Ambibox has developed an 11kW bidirectional (BiDi) EV charger based on silicon carbide semiconductors.

The BiDi DC-Wallbox is optimised for private charging sector and features a passive cooling concept.

That pushes the noise of the wallbox below the threshold of human hearing.

The bidirectional wallbox has been designed for Vehicle To Home (V2H) and Vehicle To Building (V2B) use case and is able to continuously provide both charging and discharging of the vehicle, starting from 100 watts up to the full power of 11kW.

The BiDi Wallbox will be compatible with several commercially available energy management software solutions.

This will allow you to integrate your electric vehicle into your building software and make your electric car an integrale part of your house or office building.



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All parameters not specially mentioned are measured at 400V AC input, rated load and 20°C ambient temperature. Ripple & noise are measured at 20MHz bandwidth by using a standard probe. This product is intended for European Mains connections. Grid connectivity settings can differentiate depending on country codes. (certification pending). This is a preliminary datasheet. Specifications are sub-jected to change without notice. The contents of this brochure have been prepared with the greatest possible care. However, no gua- rantee is given for the correctness, completeness and up-to-dateness of the information and illustrations. We reserve the right to make changes and illustrations may differ. All product names are trademarks and registered trademarks of their respective owners.