

11 kW DC-Wallbox



08.2023

Specifications

Version:	DC-Wallbox	
Max. power:	11 kW	
AC Input Voltage level:	3 Phases, 400V AC (Europe)	
AC Input voltage tolerance:	+- 10% (Static)	
Power factor:	>= 99%	
Total Harmonic Distortion (THD):	<= 5%	
DC Output voltage:	120 - 500V DC	
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	
Safety and Protection:	Galvanic isolation (Basic isolation Input to	
	Output) Rapid discharge DC Output	
	Over current monitoring	
	Reverse polarity protection	
	DC Output Fuses	
	Temperature monitoring	
	Isolation monitoring	
	Self-test	
Life time:	10+ years	
Standby operation time:	100.000 hours	
Active operation time:	>21.000 hours (according OEM standard use case)	
Communication to car:	ISO15118-20, ISO15118-2, DIN SPEC 70121	
Diagnose:	Remote, OCCP	
to Backend/CPO/EMS:	OCPP2.0.1,OCPP1.6J, HTTPS (Websockets etc.)*, MQTT*,	
10 DOCKETIO, CT 0, 21 15.	SmartHome protocols*	
Data interfaces:	Ethernet (LAN), WLAN, RS485/RS232	
Weight:	25kg	
Dimensions:	609mm x 365mm x 224mm	
Operating temperature:	-25 to +50°C	
Humidity:	Up to 95 %	
Operation height:	2000m over sea level	
Cooling concept:	active	
IP Class:	IP54 enclosure	
EMC:	According to EN61000-6-2 / EN61000-6-3	
Norms and Standards:	IEC 61851-1, IEC 61851-23	
Certifications:	CE for European market	
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	*on request	

Options

CCS Combo1 (CCS1)		
CCS Combo2 (CCS2)		
Stand / post for free stand mounting*		
extended Housing*		
Touch Display*		
Vandal proof for public places*		
DC Metering*		
RFID		
Cable- / Plugholder		

Branding / Customiziation

Labels	
Front cover	
Interface	
Housing	

Features

Bidirectional V2G/V2H operation ISO 15118 compatible sid-OS Energy Framework Grid compliant

*on request

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 the 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.



Ambibox GmbH An der Ochsenwiese 3, 55124 Mainz info@ambibox.de, www.ambibox.de +49 6131 6339020 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 subjected to change without notice. The contents of this brochure have been prepared with the greatest possible care. However, no guarantee 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.