PRODUCT LEAFLET

Electric Vehicle Infrastructure
AC wallbox

The ABB AC wallbox provides a high quality yet cost effective electric car charging point. Easy to fit and with a compact design, the wallbox can be installed at homes or offices, allowing drivers to simply plug their car in and get on with their day.

The wallbox is ideal for residential and commercial locations, businesses in the hospitality industry and those providing overnight charging facilities. It can also supplement DC charging sites for plug-in hybrid electric vehicles (PHEVs). It features DC leakage detection, which means there is no need for costly upstream Type-B residual current circuit breakers.

Manufactured to a high standard with a robust all-weather enclosure for indoor and outdoor use, the wallboxes are available in four specification levels and are compatible with the industry standard Open Charge Point Protocol (OCPP) making them fully future-proofed and enabled for authentication and load balancing.

The ABB AC Wallbox is available in four specification levels:
B (4.6kW)
B+ (11kW and 22kW, including optional RFID and key authentication)
Pro M and Pro S (including energy meter and comprehensive communication and authentication options).

Key benefits
- Easy installation
- No need for an expensive upstream Type-B RCD
- Sim card models available for data communication
- High quality
- Compact design

Applications
- Homes
- Offices
- Hotel and Hospitality
- Overnight fleet charging
- Supplement at DC charging sites for plug-in hybrid electric vehicles (PHEVs)

Main features
- 4.6kW and 11kW AC charging available
- 22 kW AC fast charging available
- Sealed electronics compartment
- Range of installation options
- Open Charge Point Protocol (OCPP). Pro S and Pro M devices can be connected for OCPP 1.5 and load management
- Authentication
- Monitoring

- Load balancing
- Compact design
- Robust all-weather enclosure for indoor and outdoor use

Key optional features

- RFID and key authorization
- Input current limiting software to match site requirements
- Web tools for statistics, configuration and access management
- Communication interface for intelligently controlled charging and smart home applications
- Type 1 and type 2 cables available
- Type 2 socket available
- Type 2 with shutter available
- UMTS/G3
- MID certified versions available later in 2018
- Pedestals for 1 or 2 (back to back or 90 degree angle) wallboxes

General specifications	
AC output power	up to 22kW depending on model
Connection cross-section	Minimum cross-section (depending on the cable and the laying system): - 5 x 2.5 mm² (16 A nominal current) - 5 x 6.0 mm² (32 A nominal current)
Supply terminals	Connection line: - Solid (min.-max): 0.2 – 16 mm² - Flexible (min.-max): 0.2 – 16 mm² - AWG (min.-max): 24 – 6 - Flexible (min.-max) with wire end sleeve without/ with plastic sleeve: 0.25 – 10 / 0.25 – 10 mm²
RFID system	MIFARE
Network connection	Ethernet (Pro models, UMTS/3G optional)
Environment	Indoor / outdoor
Operating temperature	-25°C to +50°C no direct sunlight
Protection	IP54, indoor and outdoor
Dimensions (H x W x D)	495x249x163 (socket), 615x249x140 (level 2 cable)
Charge cable	Socket, socket with shutters, type 1 or type 2 cable
Mass	4.8kg (socket), 6.6kg (cable)
AC Input power connection	230 V - 230/400 V 3N (B models only 230V)
Mains frequency	50/60Hz
Network configuration	TT / TN / IT
Overvoltage category	III according to EN 60664
DC residual-current monitoring	FI / RDCMB ≤ 6mA DC
Socket versions	Type 2 standard socket: 32 A / 400 VAC according to EN 62196-1 and VDE-AR-E 2623-2-2
Cable versions	Type 1 cable: up to 32 A / 230 VAC according to EN 62196-1 and SAE-J1772
(for rating see type plate)	Type 2 cable: up to 32 A / 400 VAC according to EN 62196-1 and VDE-AR-E 2623-2-2
Protection against mechanical impact	IK08 (except for cylinder lock)
Protection class	I
Compliance and safety	CE

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