

Electric Vehicle Infrastructure

DC wallbox



The ABB DC wallbox is a compact 24 kW DC fast charger for use at offices, shopping areas and car dealerships.

The ABB DC wallbox is a compact 24 kW DC fast charger with one or two outlets supporting CCS and CHAdeMO.

Operating the wallbox is easy thanks to a 7" full color, daylight readable touchscreen display. This includes starting and stopping of charge sessions, progress indication during charging, tariff information, help menus, language selection, and PIN code access.

Connectivity is key to success in EV charging. The DC wallbox features ABB Ability Connected Services to enable authentication, payment, monitoring, remote diagnostics and repair, as well as over-the-air updates and upgrades.

DC wallbox preferred over AC wallbox

When charging with AC equipment, charging power is often limited by the onboard converter of the EV. Onboard converters are usually rated 3.3, 6 or 7 kW. Any additional power the AC charging station could provide, remains unused.

With the DC wallbox, 24 kW DC power is provided directly to the battery, bypassing the limitations of the EV's onboard converter.

Applications

- Office, workplace
- Hotel and hospitality
- Parking structures
- Dealerships
- Urban fleets
- Public or private campus
- Sensitive grid applications

Main features

- 24 kW DC fast charging
- 60 A high output current
- Future proof due to DC output voltage range from 150 to 920 V_{DC} supporting today's and tomorrow's cars
- Single or dual outlet: CCS and CHAdeMO
- Daylight readable 7" full color touchscreen display
- Future proof connectivity:
 - OCPP
 - Capability for remote services
- Compact design
- Robust all-weather enclosure for indoor and outdoor use

Key optional features

- RFID authorization
- On-screen PIN code authorization
- Input current limiting software to match site requirements
- Web tools for statistics, configuration, access management, remote diagnostics and repair
- Integration with back offices and payment platforms
- Customized branding possibilities

Configurations

The DC wallbox is available in the following configurations:

- Single outlet CCS1
- Single outlet CCS2
- Single outlet CHAdeMO
- Dual outlet CCS1 + CHAdeMO
- Dual outlet CCS2 + CHAdeMO



General specifications

DC output power	24 kW
DC output voltage	150 - 920 V _{DC}
DC output current	60 A
User interface	7" full color touchscreen display
RFID system	ISO/IEC14443A/B, ISO/IEC15693, NFC reader mode, Mifare, Calypso
Network connection	GSM / 3G modem 10/100 Base-T Ethernet
Environment	Indoor / outdoor
Operating temperature	-35 °C to +55 °C (de-rating characteristic applies)
Protection	IP54, indoor and outdoor
Dimensions (H x W x D)	770 x 483 x 300 mm
Charge cable	3.5 m
Mass	70 kg without charge cables

CE models

Charging protocols	CCS 2 CHAdeMO
AC Input power connection	3P + N + PE
Input voltage range	400 V _{AC} +/-10% (50/60 Hz)
Max. rated input current	40 A Current limiting options available
Efficiency	94% at nominal output power
Compliance and safety	CE

UL models

Charging protocols	CCS 1 CHAdeMO
AC Input power connection	Single phase: L1, N, PE Split phase: L1, L2, PE
Input voltage range	200 - 240 V _{AC} +/-10% (50/60 Hz)
Max. rated input current	100 A Current limiting options available
Efficiency	94% at nominal output power
Compliance and safety	UL, FCC

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