



EV Charging Solution

DC Charger / DC Wallbox 50kW (Smart Version)

- $\geq 96\%$ efficiency saves on energy and costs
- Extremely small footprint for more flexible charging site deployment
- OCPP and network connectivity for seamless system integration



Parking



Commercial
Areas



Traffic
Hub



Slim Design for Powerful Service

The DC Wallbox 50 kW provides high-efficiency charging services for commercial sites. With a charging efficiency of $\geq 96\%$, thickness of only 25 cm, and support for simultaneous charging with a maximum output of 50 kW of DC power from two charging guns, the DC Wallbox 50 kW is suitable for sites such as roadside parking, parking lots, department stores, commercial and office buildings and EV fleet charging stations without requiring the replanning of existing parking spaces.

The DC Wallbox 50kW is OCPP-compatible, enabling backend integration for capabilities including user identification, remote monitoring and system control. Its small footprint and compact wall-mount design enable site owners to optimize their site space and layout.



Application Scenario

Charging Network



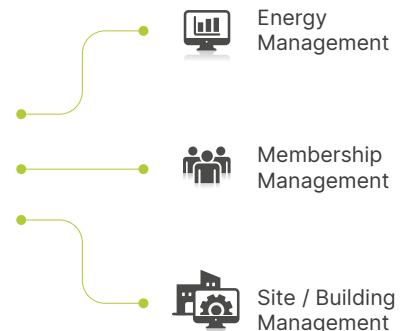
Backend Office

EV Charging Network Management System



Mobile App access for remote control

Applications



... and more

Feature Highlights



96 % ↑

≥ 96 % efficiency saves on energy and costs

- Simultaneous charging service with max. 50 kW output
- 62 % less energy dissipation, saving up to 7,300 kWh per year



60 %

Extremely small footprint for flexible charging site deployment

- Compact size, extremely small foot print (900 x 650 x 250 mm)
- Wall-mounted or stand-based installation
- Designed for indoor and outdoor environments (IP55 and IK10 protection)



OCPP and network connectivity for seamless system integration

- Supports OCPP 1.6J (upgradeable to OCPP 2.0)
- Built-in Ethernet and cellular (3G / 4G) network connectivity
- Integrable with commercial and management systems for improved operational efficiency

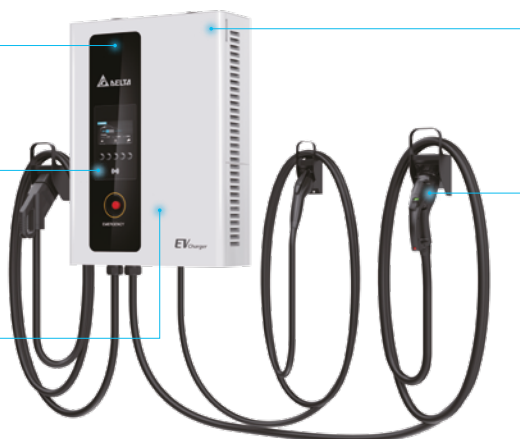


Product at a Glance

Network Connectivity
Ethernet, Cellular

User Authentication
RFID, Credit card reader

Pluggable Power Module



Protection
IP55, IK10

Charging Standard

- Optional CCS2 or CHAdeMO interface up to 50 kW
- AC Type 2 socket up to 22 kW

Specifications

Model		DC Wallbox 50 kW	
Input			
Grid Connection	Three-phase electric power (L1, L2, L3, N, PE)		
AC Voltage	230 V / 400 V		
Frequency	50 Hz / 60 Hz		
Nominal Current	110 A		
Maximum Current	125 A		
Power Factor / THDu	0.99 / 1%		
Terminal	Screw terminal for ring type cable lugs		
Protection	Over current protection, over voltage protection (class II)		
Charging Output			
Total System Power	72 kW		
Max. Qty. of Charging Outlets	3 simultaneously working charging outlets (2 x DC und 1 x AC)		
DC Charging Outlet	CCS	CHAdeMO	
Nominal Power	50 kW	50 kW	
Nominal Current	125 A at 400 V	125 A at 400 V	
Voltage Range	200 to 920 V	200 to 500 V	
Cable Length	4 m (optional 7 m)	4 m (optional 7 m)	
Protection	Ground fault monitoring, isolation monitoring		Ground fault monitoring, isolation monitoring
Compliance	IEC 61851-23 / -24, IEC 62196-3, DIN 70121		IEC 61851-23 / -24, JEVS G 105 (Rev. 1.2)
AC Charging Outlet			
Nominal Power	22 kW	Cable Length	5 m (optional 7 m)
Nominal Current	32 A per phase	Protection	RCD Type B (AC 30 mA and DC 30 mA)
Charging Voltage	230 V / 400 V	Compliance	IEC 61851-1, IEC 62196-2
Connector Type	AC Type 2 (IEC 62196-2)		
User Interface			
Display	7" LC-Display		
Languages	English (optional: up to four additional languages)		
Input	5 context dependent, illuminated buttons. Emergency power off (optional)		
Authentication	ISO/IEC 1443 A/B RFID. NFC credit card terminal with LC-Display and PIN pad - different models available (optional)		
Network Interface			
Cellular			
Count	2 (1 x backend connection and 1 x service access)		
Cellular Technology	2G / 3G / 4G		
SIM Card Format	Mini-SIM (25 mm x 15 mm)		
Protocols and Applications	Backend Connection via OCPP 1.5 and OCPP 1.6 (tested with OCTT). Separate service access		
Ethernet			
Connector Type	RJ45		
Protocols and Applications	Backend Connection via OCPP 1.5 and OCPP 1.6 (tested with OCTT). ModBus TCP for energy management		
Mechanical Properties			
Ingress Protection (IEC 60529)	IP55	Dimensions* (W x H x D)	900 x 650 x 250 mm
Impact Protection (IEC 62262)	Enclosure: IK10 / LC-Display: IK08	Weight*	102 kg
Cooling	Forced Air		
Environmental Conditions			
Operating Temperature Range	-25 °C to +50 °C	Humidity	< 95 % relative humidity, non-condensing
Storage Temperature Range	-40 °C to +80 °C	Altitude	Up to 2000 m
Compliance			
EU Low Voltage Directive	IEC 61851-1, IEC 61851-22, IEC 61851-23, IEC 62479		
EU EMI Directive	EN 55011, IEC 61851-21-2		
Accessibility	N 18040		

* Dimension and weight excluding charging connectors, subject to variants. Product outlook depends on configuration. Specifications are subject to change without notice.



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