



EV Charging Solution

DC Charger / DC Wallbox 50 kW

- $\geq 96\%$ efficiency optimizes the total costs of ownership
- Multi-directional cable use and extended cable reach
- Integrated meter and payment terminal to cater for public EV charging
- Advanced cable management system



Parking



Commercial
Areas



Traffic
Hub



Slim Design for Powerful Service

The new DC Wallbox 50 kW is a compact, high-efficiency charging solution for commercial sites, delivering $\geq 96\%$ efficiency in a slim 25 cm design. With simultaneous DC charging across two connectors, it is ideal for roadside parking, shopping centers, office buildings, and EV depots, all without major space modifications.

This new generation offers an enhanced feature set, including status indicators to guide the EV driver easily to an available charge point, a credit card reader to enable ad-hoc charging, certified energy meters and an advanced cable management system that ensures an easy and clean handling of the charging plugs.

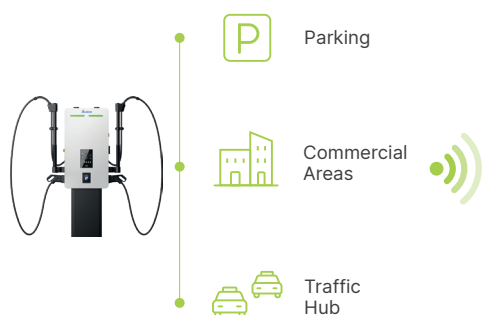


Application Scenario

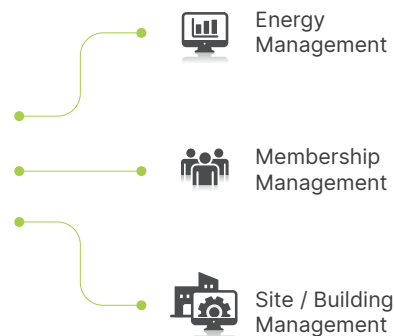
Charging Network

Backend Office

Applications



Mobile App access
for remote control



... and more

Feature Highlights



≥ 96 % efficiency and high power density

- Simultaneous charging with max. 50 kW output and 62 % less energy dissipation, saving up to 7,300 kWh per year
- Extremely small footprint (1200 x 650 x 250 mm) enables flexible wall-mounted or stand-based installation
- Robust design for indoor and outdoor environments (IP55 and IK10 protection)



Multi-directional Cable Use and Extended Cable Reach

- Enabling easy access from either side of the vehicle and efficient use of space through flexible, multi-directional deployment
- New cable management system provides ample cable handling, accommodating various vehicle parking positions
- Designed with a generous cable radius of 3.9 m, the system ensures smooth handling and minimizes strain

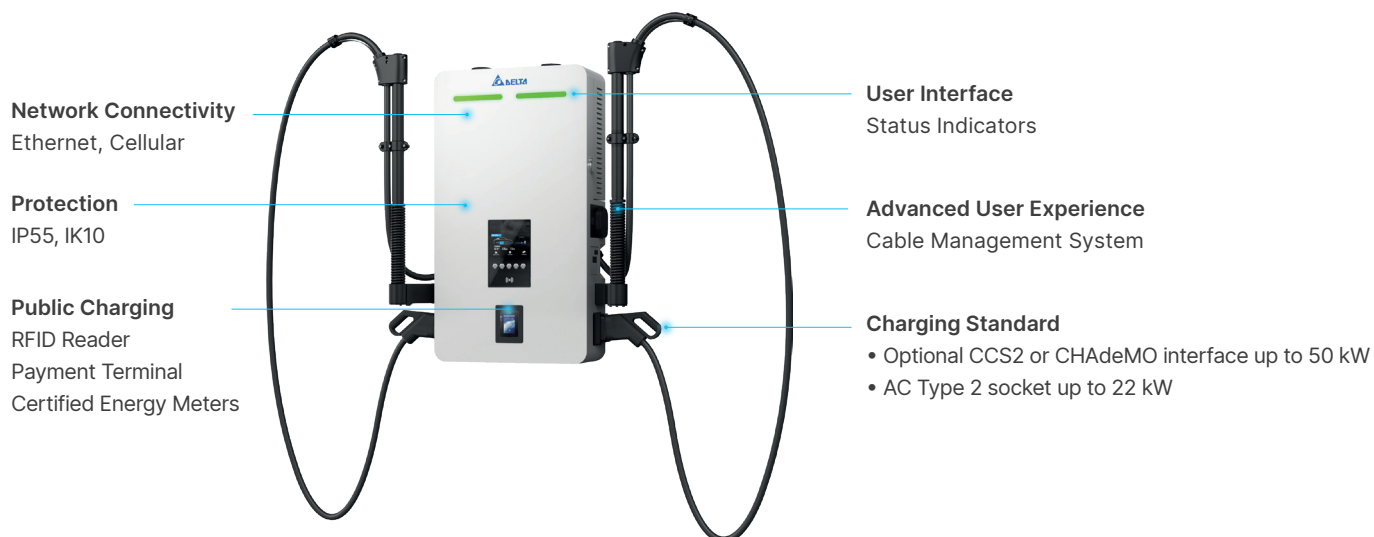


OCPP and network connectivity for seamless system integration

- 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



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 and 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
Maximum Current	166 A		125 A
Voltage Range	200 to 920 V		200 to 500 V
Cable Length	5 m (optional 7 m, 9 m)		4 m (optional 7 m, 9 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	Protection	RCD Type A (AC 30 mA) and RDC-DD (DC 6 mA)
Nominal Current	32 A per phase	Compliance	IEC 61851-1, IEC 62196-2
Charging Voltage	230 V / 400 V		
Connector Type	T2S Socket (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)		
Status Indicators	LED Stripes to indicate the status of each DC charge point		
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)	650 × 1200 × 250 mm
Impact Protection (IEC 62262)	Enclosure: IK10 / LC-Display: IK08	Weight*	115-165 kg (dependent on the configuration)
Cooling	Forced Air	Cable Management System	Spring Type Cable Management System (optional)
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	DIN 18040		

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



More information

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