

DELTRIX

charging solutions



D15WDCx – 15KW Wall-Mounted EV Fast Charger

The Deltrix D15WDC is a wall-mounted DC Charger based on one of our 15KW Modular Charging Power Supplies. It is built for speed and meets the fast charge standards of all European, Asian and North American electric vehicle (EV) manufacturers, while also supporting actual and future generations of EVs that are demanding a higher charge capacity.

The standard version of the charger enables the simultaneous charging of up to two cars. One DC charge points supporting quick charging with CCS or Chademo and optionally another for AC Port charging up to 22kW.

The D15WDC has an integrated RFID reader that supports user identification and an optional MID-meter enables financial settlement. Internet connection is via GPRS, Wi-Fi or Ethernet to allow the unit to be connected to the customer's parent system or charging station management platform using the OCPP protocol.

The Charger is available in both Mono and Bi-Directional versions. The Bi-Directional system is suitable for PV/EV/Grid configurations.

Key Features

- Wall-mounted for indoor use (outdoor in development)
- Small footprint
- CCS2 combo and/or CHAdeMO and AC Type 2 Connectors
- Dynamic power management to minimize charge time
- Efficiency up to 95% at nominal output power
- Intelligent RFID card reader
- 7" touch screen and user-friendly interface
- Ethernet, Wi-Fi and 2G/3G/4G optional
- Back-office system integration with OCPP 1.5/1.6/2.0 (future)
- Easy to install, operate and service
- Full customization available
- Also available in a 750V version

Application Areas

- Private Garages
- Commercial Buildings/Supermarkets
- Hotels and Restaurants
- Office Buildings

Technical Specifications

	Mono-Directional - 500V	Bi-Directional - 500V
AC Input		
Input Voltage	400V ± 10%	400V ± 10%
AC Input Connection	3P + N + PE	3P + N + PE
Frequency	50 / 60 Hz	50 / 60 Hz
Input current (AC-DC)	<30A	0-30A
Input current (DC-AC)	N/A	0-30A
Power Factor	>0.99 (APFC)	>0.99 (APFC)
Full Load Efficiency	≥95%	≥93%
Mains terminal	Terminal blocks	Terminal blocks
Input Protection	OVP, OCP, OPP, OTP, UVP, Residual current detection, Surge protect	OVP, OCP, OPP, OTP, UVP, Residual current detection, Surge protect
DC Output		
Output Voltage Range	200 to 500V	200 to 500V
Max. Output Current (AC-DC)	0-50A	0-30A
Max. Output Current (DC-AC)	N/A	0-30A
Max. Output Power	45KW	45KW
Voltage Accuracy	± 1%	± 1%
Current Accuracy	± 1%	± 1%
Output Protection	Short circuit protection, OCP, OVP, LVP, OTP, Residual current detection	Short circuit protection, OCP, OVP, LVP, OTP, Residual current detection
DC Charge Point: CCS		
Rating cable and gun	200 ADC / 850 VDC	200 ADC / 850 VDC
Compliance	IEC 61851-23 / -24 IEC 62198-3 DIN 70121	IEC 61851-23 / -24 IEC 62198-3 DIN 70121
DC Charge Point: CHAdeMO		
Rating cable and gun	125 ADC / 500 VDC	125 ADC / 500 VDC
Compliance	IEC 61851-23 / -24, JEVS G 105, Rev. 1.0.1	IEC 61851-23 / -24, JEVS G 105, Rev. 1.0.1
AC Charge Point		
AC Socket at 22 kW	Mode 3 (IEC 62196-2), Type 2	Mode 3 (IEC 62196-2), Type 2
Nominal AC voltage	400V	400V
Maximum charging current	3 x 32A at 22 kW	3 x 32A at 22 kW
Cable / access length	3.5 m	3.5 m
Protection	RCD Type B, OCCB, Ground monitoring	RCD Type B, OCCB, Ground monitoring
General		
Display	7" LCD touch screen	7" LCD touch screen
Emergency Stop Control	Press emergency stop button	Press emergency stop button
User Authentication	RFID ISO14443A (M1/MIFARE Card)	RFID ISO14443A (M1/MIFARE Card)
Display Information	Charging process and status Alarm and warning messages	Charging process and status Alarm and warning messages
External Communication	Ethernet, Wi-Fi & 3G/4G (optional)	Ethernet, Wi-Fi & 3G/4G (optional)
Internal Communication	CAN Bus / RS485	CAN Bus / RS485
Dimensions (H x W x D)	578mm x 320mm x 250mm	578mm x 320mm x 250mm
Protection	IP21, IK10 (other IP ratings on request)	IP21, IK10 (other IP ratings on request)
Back Office Integration	OCPP 1.5/1.6/2.0 (future)	OCPP 1.5/1.6/2.0 (future)
Compliance and safety	RoHS: EN 50581, CE & IEC 61851-1	RoHS: EN 50581, CE & IEC 61851-1
Energy Metering	Supported - Optional	Supported - Optional
Cooling	Forced Air / Fan cooling	Forced Air / Fan cooling
Operating temperature	-25 °C to +45 °C	-25 °C to +45 °C
Maximum relative humidity	95 %, non-condensing	95 %, non-condensing
Part Numbers	D15WDCM-500	D15WDCB-500

EU HQ, Sales & Marketing – Ireland

Deltrix (Ireland) Limited
29 Windsor Place
Dublin 2, D02 P653
Ireland

Tel.: +353 (1) 5390606
E-Mail: info@deltrix.com

Sales & Marketing – Germany

Deltrix Germany
Max-Planck-Straße 4
85609 Aschheim-Dornach
Germany

Tel.: +49 (89) 215 385 23
E-Mail: info@deltrix.com