

DELTRIX

charging solutions



DG50PDCM: 50kW Smart DC Charging Pole

The Deltrix DG50PDCM is an elegant DC Charging Pole based on our 30KW Modular Charging Power Modules. It is built for speed and meets the fast-charging 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 by means of remote updates.

The standard version of the charger supports DC Fast Charging with CCS or CHAdeMO. Optionally, an AC Charging Port can be included to support charging up to 22KW and thus maximising your investment.

The DG50PDCM has an integrated RFID reader that supports user identification. The user interface is via a 10" LCD Touch Screen Display. The Internet connection is via 3G/4G or ethernet to allow the unit to be connected to the customer's backend system or charging station management platform using the OCPP protocol. Our Open API Interface ensures that the customer can independently complete the integration into any backend quickly and easily. Support for new EV Models is guaranteed through regular remote updates.

Key Features

- Ultra-wide range of output voltages, 200-500VDC (150-1000VDC optional)
- Robust Pedestal suitable for outdoor use (IP44, IK10)
- CCS2 Combo or CHAdeMO
- 22KW AC Charger with Type 2 Connector (optional)
- Dynamic power management to minimize charging time
- Efficiency > 95% at nominal output power
- Low output DC ripple wave
- Intelligent RFID card reader
- 10" LCD touch screen (optional)
- Standard CAN/RS485 communication interface
- Communications via Ethernet or GPRS/GSM/LTE
- Back-office system integration with OCPP 1.5/1.6/2.0
- Easy to install, operate and service
- Full customization available (colour and logo)

Application Areas

- Public and Private Garages
- Commercial Buildings
- Hotels and Restaurants
- EV Dealerships
- Commercial Fleet Operators
- EV Infrastructure Operators and Service Providers



Technical Specifications

AC Input

Input Voltage	260V to 530V
AC Input Connection	3P + N + PE
Frequency	50 / 60 Hz
Input current (AC-DC)	<30A
Power Factor	>0.99 (APFC)
Full Load Efficiency	≥95%
Mains terminal	Terminal blocks
Input Protection	OVP, OCP, OPP, OTP, UVP, Residual current detection, Surge protect

DC Output

Output Voltage Range	200-500VDC / 150-1000VDC (depending on the DC Module used)
Max. Output Current (AC-DC)	0-120A
Max. Output Power	50KW
Voltage Accuracy	± 1%
Current Accuracy	± 1%
Output Protection	Short circuit protection, OCP, OVP, LVP, OTP & RCM

DC Charge Point: CCS

Rating cable and gun	200 ADC / 850 VDC
Compliance	IEC 61851-23 / -24, IEC 62198-3, DIN 70121

DC Charge Point: CHAdeMO

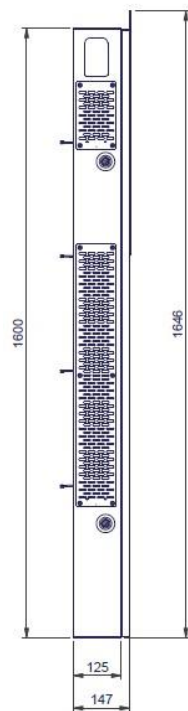
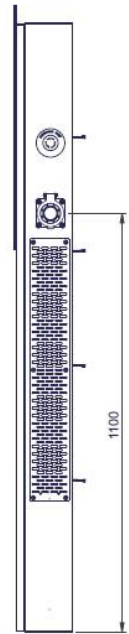
Rating cable and gun	125 ADC / 500 VDC
Compliance	IEC 61851-23 / -24, JEVS G 105, Rev. 1.0.1

AC Charge Point

AC Socket at 11 kW	Mode 3 (IEC 62196-2), Type 2
Nominal AC voltage	400V
Maximum charging current	3 x 16A for 11KW or 3 x 32A for 22KW
Protection	RCD Type A + RCM for DC Fault Protection

General

Display	10" LCD touch screen
Emergency Stop Control	Stop button
Cable / access length	3M (CCS or CHAdeMO). Longer cable available on demand
User Authentication	RFID ISO14443A (M1/MIFARE Card)
Display Information	Charging process and status. Alarm and warning messages
External Communication	Ethernet or GPRS/GSM/LTE
Internal Communication	CAN Bus / RS485
Dimensions (H x W x D)	1646mm x 635mm x 147mm
Weight	≈ 85KG
Protection	IP44
Back Office Integration	OCPP 1.5/1.6/2.0 using the Open API Integration Kit
Compliance and safety	RoHS: EN 50581, CE & IEC 61851-1
Energy Metering	Supported - Optional
Cooling	Forced Air / Fan cooling
Operating temperature	-25 °C to +45 °C
Maximum relative humidity	95 %, non-condensing
Mounting Support	Requires a preinstalled concrete base or similar. Please contact for support.



Part Numbers

DG50PDCM-5LAC – With LCD Display and AC Port

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