

DELTRIX

charging solutions



DPxxDCM - 20/40KW EV Fast Charger

The technology provided on the new DELTRIX DP20DCM and DCM40DCM Fast Charging Stations is not just the simple High-Frequency switching technology at 25-50KHz that you usually find on the market, but rather a SIC-MOSFETs option that works up to 100KHz. This technology offers high energy savings compared to previous charging technologies as well as having a lower environmental impact. The standard system supports a voltage of 500V (700V planned) and a power rating of 20KW or 40KW.

One or two charge points can be made available for DC quick charging up to 40KW with CCS and Chademo. Optionally, an AC Port can be added to support charging up to 11KW.

The DP20DCM has an integrated RFID reader that supports user identification and an optional MID-meter enables financial settlement. The 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 OCCP protocol.

All aspects of the charger can be modified to meet your requirements.

Key Features

- Robust, stand-alone or network-integrated charger for indoor use
- Available in 20KW or 40KW versions
- Optimized for extreme conditions
- CCS2 combo and/or CHAdeMO
- 11KW AC Charger -- optional
- Dynamic power management to minimize charge time
- Efficiency up to 94% 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

Application Areas

- Parking Garages
- Commercial Fleet Operators
- EV infrastructure operators and service providers
- Office Buildings and Supermarkets
- Bus Stations



Technical Specifications

	20KW Charger	40KW Charger
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)	0-30A	0-30A
Power Factor	>0.99 (APFC)	>0.99 (APFC)
Full Load Efficiency	≥94%	≥94%
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)	40A	80A
Max. Output Power	20KW	40KW
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 (optional)		
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 16A at 11KW	3 x 16A at 11KW
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)	810mm x 4500mm x 360mm	810mm x 4500mm x 360mm
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
Technology	SIC-MOSFETs	SIC-MOSFETs
Customization	Full customization possible	Full customization possible
Part Numbers	DP20DCM-500	DP40DCM-500

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