



Harmony Direct

Extreme Power DC charger
for heavy duty Electric
Vehicles

240 – 400 kW DC Charging Station



Power up your charging operations

Serving all types of vehicles and charging needs, our Harmony fast DC chargers guarantee smooth backend compatibility, an intuitive user experience, and simple integration with your existing business operations.



Everything you might be asking for

- + Operable in extreme high temperatures without power derating
- + Cable management retractor and integrated area lighting
- + CCS2 up to 400A per outlet
- + >95% energy efficiency
- + Power configurations from 240 kW to 400 kW in 40 kW increments
- + Smooth payment and authentication
- + Intuitive user experience
- + Authentication methods: RFID, QR code, plug & charge, mobile app
- + OCPP 1.6J remote management
- + Easy transportation and installation
- + Customizable corporate branding

The trusted EV charging solution provider for industry leaders

Fleets

Fleet vehicles only earn you money while they're on the road. We help ensure your vehicles are charged and ready for work whenever and wherever they're needed.

Workplace

Exercise your commitment to sustainable transportation and facilitate company-wide emission reduction by providing convenient workplace charging options.

Charge Point Operators

End-to-end management and control over the charging process and experience. Pair your chargers with ChargeX or integrate with another charger management system of your choice.

Retail & Hospitality

Reliable charging solutions that are easy to install, maintain, and scale, so you can appeal to EV-driving patrons with convenient on-site charging options.

Heavy duty vehicles

Big loads need powerful charging. Our industrial charging solutions ensure your heavy duty fleet is charged and ready to run at full capacity.

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Specifications



Power Output

DC Output Voltage Rating: 200 – 1,000 Vdc
Outlet 1: CCS-2 300 A (cont.), 400A (peak) or 400A (cont)
Outlet 2 (optional): CCS-2 300 A (cont.), 400A (peak) or 400A (cont)
System Power Rating: 240kW with 6* 40kW modules
320kW with 8* 40kW modules
400kW with 10* 40kW modules
CCS Power Class: UFC 240, UFC 320, UFC 400
Simultaneous EV charging qty.: up to 2

Mains Input

Input Voltage (nominal): 380/400/415 Vac
Input Voltage Range: 320 Vac – 520 Vac
Network Connection: TN-S
AC Wiring: 3-Phase (L1, L2, L3), N, PE
AC Power Rating (@ 400 Vac): 372 A, 258 kVA for 240 kW
496 A, 344 kVA for 320 kW
620 A, 430 kVA for 400 kW
Input Frequency (nominal): 50 / 60 Hz
Input Frequency Range: 45 – 65 Hz
Conversion Efficiency: $\geq 95\%$ (peak)
THD(i): $< 5\%$
Power Factor: > 0.98
Inrush Current (Instant Impulse Current): < 100 A
Leakage Current: < 10 mA
Short Circuit Current Rating: 25 kA
Standby Power @ nom. voltage: 158 W (240 KW); 182 W (320 KW); 206 W (400 kW)

Mechanical

Ingress Protection: IP 54 acc. IEC 60529
Impact Resistance: IK10 acc. IEC 62262
Dimension (H*W*D) excl cable management: 1,885 * 795 * 820 mm
With cable management: 2,030 * 950 * 925 mm
Weight: 430 kg approx.
Cable Management: Roof mounted sprung retractors with integrated area lighting
Charging Cable Length: 5 meters, 7 meters optional
Material: Texture Finish Powder Coating SECC
Mounting: Free Standing (may be bolted to floor)
Cooling: Forced Air (variable speed)

Configuration

Software update: OTA (Over The Air)
Control and Set up: OCPP v1.6j, local (passcode controlled)

Environmental

Operating Temperature: -30°C to 75°C (linear de-rating above 55°C)
Storage Temperature: -40°C to 80°C
Altitude: 2,000 meters (de-rating above 2,000 meters)
Humidity (Non-Condensing): 5 % to 95 %

Specifications



Standards / Certification

Safety: IEC 61851-1;
IEC 61851-21-2; IEC 61851-23; IEC 61851-24; IEC 62196-1; IEC 62196-2; IEC 62196-3; IEC 61000
Other: CE (LVD, EMC, RED, ROHS); ARAI (AIS 138 Part 2)
Vehicle Communication: DIN 70121, ISO15118

Quality

Mean Time Between Failure: >150,000 hours
Mean Time To Repair: <1 hour on arrival at site
Design Life: 10 years*
Warranty: 2 years* (standard). Extension available

Protection and Safety

Surge Protection: Integrated – IEC 61000-4-5
Over Current: 134 A @ 300 Vdc per 40kW module
Under Voltage: AC Input: < 280 Vac phase to phase
Over Voltage: AC Input: > 530 Vac phase to phase
Over Temperature: Auto de-rated above 55 °C ambient
Residual Current (Leakage): < 100 mA
Over Voltage Category: III

User Interface and Comms

Display: Integrated – 7" TFT LCD touch screen
Support Language: English
Emergency Switch: Available (red mushroom push button)
Charge Option / User Authentication: RFID, mobile app, OTP, QR Code
Energy Metering: DC Included (MID AC input optional)
Visual Indication (LED): Presence of Supply, State of Charging, Error
RFID: MIFARE – ISO/IEC 14443A/B
Connectivity: Internet access via Ethernet (RJ45)
Modem (option): 4G LTE (EU)

* Terms and Conditions apply

harmony D 400 K 1K0 - 2 2 _ _ - 300 - 300 - _ _ - 40a XX

1	Family Name:	Harmony	7	Max Gun Rating (A):	032 = 32A; 100 = 100A; 125 = 125A; 250 = 250A; 400 = 400A; BLANK = NONE
2	Type:	D = Harmony Direct C = Harmony Core A = Harmony Access	8	Module Type:	30a = 30kW (std) 40a = 40kW (std)
3	Power Rating:	030 = 30 kW; 060 = 60 kW; 082 = 82 kW; 090 = 90 kW; 120 = 120 kW; 142 = 142 kW; 150 = 150 kW; 160 = 160 kW; 180 = 180 kW; 200 = 200 kW; 240 = 240 kW; 280 = 280 kW; 320 = 320 kW; 360 = 360 kW; 400 = 400 kW;	9	XX:	Specific Variant Consult Exicom
4	Fixed Text:	K = 'thousand'			
5	Output Voltage:	500 = 500 Vdc 750 = 750 Vdc 1K0 = 1,000 Vdc			
6	Connector config:	1 = CCS1; 2 = CCS2; 3 = CHAdEMO; 4 = GB/T-12; 5 = GB/T-24; 6 = AC type1; 7 = AC type2; BLANK = NONE			

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