Harmony Direct

Multi–standard DC charger
for multiple EV types

60–120 kW DC Charging Station

harmony | **exicom**

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
+ Charges up to 3 vehicles at a time
+ CCS2, CHAdeMO, GB/T, & 22 kW AC Type 2 outputs
+ Optional 22 kW AC Type 2 output
+ >95% energy efficiency
+ Power configurations from 60 kW to 120 kW in 30 kW increments
+ Smooth payment and authentication
+ 7" touchscreen user interface
+ Intuitive user experience
+ Authentication methods: RFID, QR code, plug & charge, mobile app
+ OCPP 1.6J remote management
+ IP54 rating water resistant
+ 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 facillitate 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.

The trusted EV charging solution provider for industry leaders

HYUNDAI   KIA   Audi

VOLVO   Jio | bp   BLU SMART MOBILITY

fortum   TATA MOTORS   ASHOK LEYLAND

Specifications

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Power Output

DC Output Voltage Rating: 200 – 1,000 Vdc

Outlet 1: CCS–2 125 A or 200 A or 250 A (cont.), GB/T 125 A or 200 A or 250 A (cont.)

Outlet 2 (optional): CCS–2 125 A or 200 A or 250 A (cont.), GB/T 125 A or 200 A or 250 A (cont.), CHAdeMO 125 A

Outlet 3 (optional): AC Type–2 22 kW

DC Power Class: FC 60, UFC 120

System Power Rating: 60 kW with 2* 30 kW modules; 90 kW with 3* 30 kW modules
120 kW with 4* 30 kW modules

Simultaneous EV charging qty.: up to 3

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): 93 A, 65 kVA for 60 kW; 140 A, 97 kVA for 90 kW;
186 A, 130 kVA for 120 kW

with optional 22kW outlet: 125 A, 87 kVA for 60 kW; 172 A, 119 kVA for 90 kW;
218 A, 152 kVA for 120 kW

Input Frequency (nominal): 50 / 60 Hz

Input Frequency Range: 45 – 65 Hz

Conversion Efficiency: ≥ 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: 110 W (60 KW), 122 W (90 KW), 134 W (120 kW)

Mechanical

Ingress Protection: IP 54 acc. IEC 60529

Impact Resistance: IK10 acc. IEC 62262

Dimension (H*W*D): 1,850 * 650 * 510 mm

Weight: 60kW – 170 kg approx, 120 kW – 215 kg approx

Charging Cable Length: 5 meters, 7 meters optional

Cable Management (option): Roof mounted sprung retractors with integrated area lighting

Material: Texture Finish Powder Coating SECC

Mounting: Free Standing (may be bolted to floor)

Cooling: Forced Air (variable speed)

Specifications

harmony

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 %

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: ARAI (AIS 138 Part 2)

Vehicle Communication: DIN 70121, ISO 15118, CHAdeMO v1.2, GB/T 27930, IEC61851

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: DC output: 101A @ 300V per 30 kW 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 120 K 1K0 - 2 2 __ __ - 200 - 200 - __ - __ 30a XX

1	**Family Name:**	Harmony

2	**Type:**	D = Harmony Direct C = Harmony Core A = Harmony Access

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;

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

7	**Max Gun Rating (A):**	032 = 32A; 100 = 100A; 125 = 125A; 250 = 250A; 400 = 400A; BLANK = NONE

8	**Module Type:**	30a = 30kW (std) 40a = 40kW (std)

9	**XX:**	Specific Variant Consult Exicom

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EV chargers for homes and businesses

Exicom is distributed and maintained by a network of qualified partners and resellers. Find more information and your local partner at:

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