



# Harmony Direct gen 1.5 (Int.)

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, CHAdeMo, GB/T outputs
- + >95% energy efficiency
- + Power configurations from 240 kW to 400 kW in 40kW increments
- + Stainless Steel structure available
- + Smooth payment and authentication
- + Intuitive user experience
- + Authentication: RFID, QR code, Plug & Charge with MAC ID
- + OCPP 1.6J
- + Easy transportation and installation
- + Customizable corporate branding
- + 10" capacitive touch screen user interface
- + IP54 rated water resistant

## 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 or 400 A (cont.)  
**Outlet 2 (optional):** CCS-2 300 A or 400 A (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:** ≥ 95% (peak)  
**THD(i):** < 5 %  
**Power Factor:** > 0.98  
**Inrush Current (Instant Impulse Current):** < 100 A  
**Short Circuit Current Rating:** 25 kA  
**Standby Power @ nom. voltage:** <35W

## Mechanical

**Ingress Protection:** IP 54 acc. IEC 60529  
**Impact Resistance:** IK10 acc. IEC 62262  
**Dimension (H\*W\*D):** 1,880 \* 795 \* 820 mm without cable management (2,030 mm height with cable management)  
**Weight:** 430 kg approx.  
**Cable Management:** Roof mounted sprung retractors with integrated area/status lighting  
**Charging Cable Length:** 5 meters, 7 meters optional  
**Material:** Texture Finish Powder Coating SECC or Stainless Steel  
**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, Exicom MBE platform (password controlled)

## Environmental

**Operating Temperature:** -30 °C to 75 °C (linear de-rating above 45 °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



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## 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, EMCD, RED, ROHS); ARAI (AIS 138 Part 2)  
**Vehicle Communication:** DIN 70121, ISO15118

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## 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

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## 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):** < 30 mA  
**Over Voltage Category:** III

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## User Interface and Comms

**Display:** Integrated –10" capacitive touch screen TFT LCD  
**Support Language:** Multi-language  
**Emergency Switch:** Available (red mushroom push button)  
**Charge Option / User Authentication:** RFID, mobile app, OTP, QR Code  
**Energy Metering:** DC Included (EN50470-4 compliant option)  
**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

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harmony D 400K 1K0 - 2 2 - 300 - 300 - 40a - G15400 - XX

1 Family Name: Harmony

2 Type: D = Harmony Direct

3 Power Rating: 240 = 240kW;  
280 = 280 kW;  
320 = 320 kW;  
360 = 360kW;  
400 = 400kW

4 Fixed Text: K = 'thousand'

5 Output Voltage: 1K0 = 1,000 Vdc

6 Connector config: 2 = CCS2; 4 = GB/T-12; 5 = GB/T-24;  
BLANK = NONE

7 Max Gun Rating (A): 300 = 300 A; 400 = 400 A

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

9 Frame Size: G15400 = Gen 1.5, 400kW cabinet

10 XX: Specific Variant – Consult Exicom

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