

Polyfazer Core 80

Model PC80 · CCS2 & CCS2

80 kW

Compact DC fast charger for reliable everyday operation.

Standalone all-in-one station of the Polyfazer Core range with 80 kW output and two CCS2 connectors for charging two vehicles at once. Fully potted power modules with over 96 % efficiency, IP55 protection and IK10 impact resistance ensure reliable operation even in harsh environments. The compact 750 × 460 mm footprint saves space in tight parking spots, while a 10.1" colour touch screen, RFID/PIN authentication and an optional payment terminal keep operation simple.



Finish: **Graphite Blue** ☒ ☐
also available in Ice White

80 kW

TOTAL POWER

200 AMAX. CURRENT /
CONNECTOR**200–1000 V**

OUTPUT VOLTAGE

2 × CCS2

CONNECTORS

KEY PARAMETERS

Outlets	2 × DC CCS2, 5.0 m cable
Vehicles at once	Up to 2 · power sharing between connectors
Power input	3P + N + PE · AC 400 V ± 10 % · 121 A · 50/60 Hz
Cooling	Forced air
Display	10.1" colour touch screen (HMI)
Authentication	RFID · app · QR code · PIN code · Plug&Charge (PnC) · optional payment terminal, Autocharge
Payment	Optional integrated Nexgo UN20 terminal with the Polyfazer app
Protocols	OCPP 1.6J · OCPP 2.0 (Q4/2026) · PLC (DIN 70121 / ISO 15118)
Protection / enclosure	IP55 · IK10 (HMI IK08) · indoor/outdoor

SUITABLE FOR

Shopping centres and retail · hotels and restaurants · corporate car parks · residential projects

Compact and lightweight design

A 750 × 460 mm footprint and up to 260 kg including modules. Fits even tight parking spots and ships in carton packaging.

Ready for the Polyfazer platform

OCPP 1.6J, remote monitoring, billing, roaming and driver support in one ecosystem covering hardware and software.

Reliable in harsh conditions

Fully potted power modules, IP55 protection, IK10 impact resistance and operation from –30 °C to +70 °C (derated above 50 °C).

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Model PC80 · CCS2 & CCS2 · Specification version V1.1

POWER INPUT

Phases / lines	3P + N + PE
Voltage	AC 400 V ± 10 %
Current	121 A
Frequency	50 / 60 Hz

POWER OUTPUT

Voltage	DC 200–1000 V
Max. current / connector	200 A (optional 250 A)
Total power	max. 80 kW
Charging mode	Simultaneous, both connectors
Efficiency	> 96 %
Power factor	> 0.99
Harmonics	iTHD < 5 %

DESIGN AND CONSTRUCTION

Installation	Floor-standing
Charging connectors	2 × DC CCS2 · CCS1, CHAdeMO or GB/T on request
Cable length	5.0 m (per connector)
Simultaneous charging	Yes
Power sharing	Power shared between connectors (output buses linked by a DC contactor)
LED indicator	Yes
HMI	10.1" colour touch screen
Authentication	RFID · app · QR code · PIN code · Plug&Charge (PnC) · optional: payment terminal (POS), Autocharge
Energy meter	DC meter
Cable management	Optional 2 × self-retracting arm

COMMUNICATION

Charger / EV	PLC (DIN 70121 / ISO 15118)
Network interface	SIM · GSM / 3G / 4G · Ethernet
Communication protocol	OCPP 1.6J · OCPP 2.0 (Q4/2026)

OPTIONAL EQUIPMENT

Payment and interface	POS terminal · RFID reader
Environmental protection	Anti-condensation heater · humidity control · water immersion alarm
Safety monitoring	Smoke detection · tilt sensor · PE continuity monitoring
Cable management	Automatic cable retractor (arm)

PAYMENTS

Payment solution	Optional: integrated Nexgo UN20 terminal with the Polyfazer payment app
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OPERATING CONDITIONS

Operating temperature	–30 °C to +70 °C (derated above 50 °C)
Operating humidity	5–95 % RH, non-condensing
Operating altitude	< 2000 m (derated above 2000 m)
Protection grade	IP55
IK rating	IK10 (HMI: IK08)
Application site	Indoor / outdoor
Cooling method	Forced air cooling
Noise	≤ 65 dB (1 m, 25 °C)

SAFETY PROTECTION

Multiple protection	Over / under voltage protection Over current protection Overload protection Short circuit protection Leakage protection Over temperature protection Grounding protection Integrated surge protection
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PACKAGING

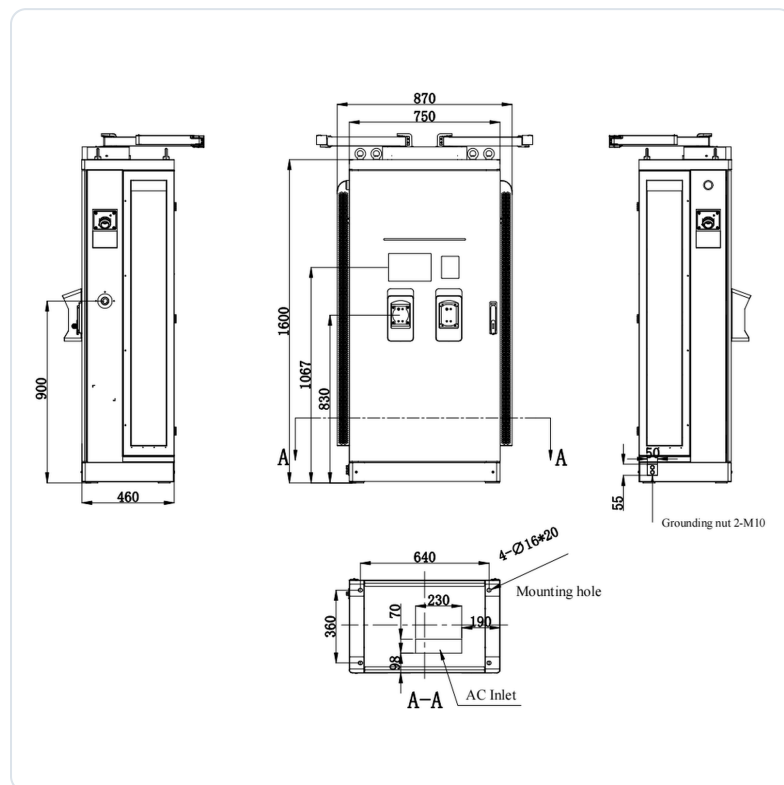
Net weight (without modules)	≤ 200 kg
Gross weight (with modules)	≤ 260 kg
External packing	Carton packing

STANDARDS AND CERTIFICATION

Certificates	CE
LVD	EN IEC 61851-1:2019 EN IEC 61851-23:2014 EN IEC 61851-24:2014 EN IEC 62311:2020 EN 50665:2017
EMC	EN IEC 61851-21:2021 EN IEC 61000-6-2:2019 EN IEC 61000-6-4:2019 EN 301 489-1 V2.2.3 EN 301 489-3 V2.3.2 EN 301 489-52 V1.3.1
RF (RED)	EN 300 330 V2.1.1 EN 301 511 V12.5.1 EN 301 908-13 V13.2.1 EN 301 908-2 V13.1.1 EN 301 908-1 V15.2.1
Communication to EV	DIN 70121 · ISO 15118

Polyfazer Core 80

Model PC80 · mechanical drawing



Dimensions in mm. Drawing applies to models PC50, PC60, PC80. Section A-A: base footprint with mounting holes and AC inlet.

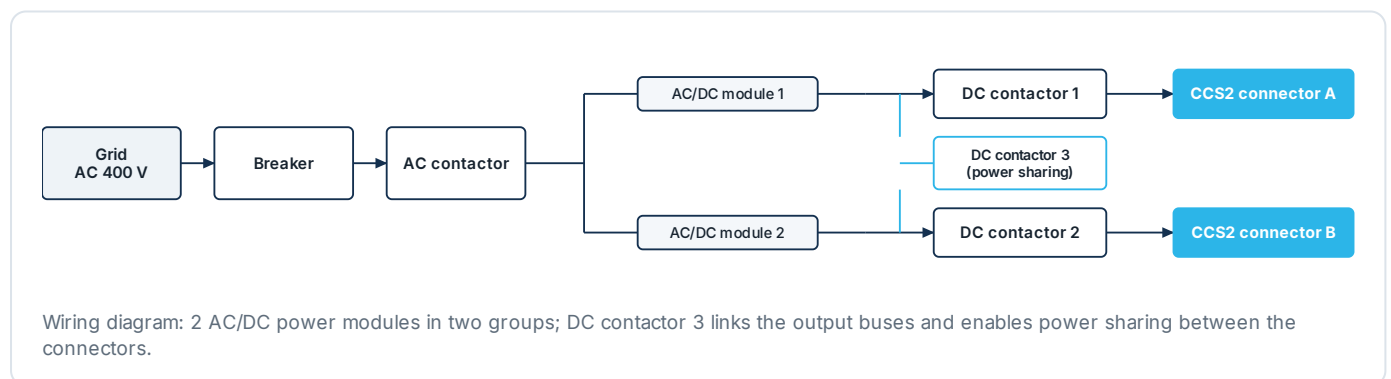
DIMENSIONS AND WEIGHT

Width	750 mm (870 mm incl. cable hangers)
Cabinet height	1600 mm
Depth	460 mm
Mounting holes (spacing)	640 × 360 mm · 4 × Ø16
Net weight (without modules)	≤ 200 kg
Gross weight (with modules)	≤ 260 kg

INSTALLATION CONDITIONS

Application site	Indoor / outdoor
Protection grade	IP55 · IK10 (HMI IK08)
Power supply	3P + N + PE · AC 400 V · 121 A
Operating temperature	-30 °C to +70 °C (derated above 50 °C)

CHARGING SYSTEM ARCHITECTURE



Wiring diagram: 2 AC/DC power modules in two groups; DC contactor 3 links the output buses and enables power sharing between the connectors.



Hardware, network and support from one partner.

The Polyfazer Core 80 can be fully operated on the Polyfazer platform: billing, monitoring, roaming and driver support, including installation and service. Contact us for the right configuration for your site.

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