

Polyfazer Vision PRO 180

Model PVP180 · CCS2 & CCS2

180 kW

Ultra-slim high-power DC fast charger for high-traffic sites.

Standalone all-in-one station of the Polyfazer Vision PRO range with 180 kW output and two CCS2 connectors. The ultra-slim 304 stainless steel cabinet is only 615 mm deep and saves space at highway rest areas and transport hubs; fully potted power modules deliver over 96 % efficiency and long service life in harsh conditions. The 23.8" touch screen guides the driver and can display advertising content, while integrated self-retracting arms keep the cables off the ground.



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

180 kW

TOTAL POWER

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

OUTPUT VOLTAGE

2 × CCS2

CONNECTORS

KEY PARAMETERS

Outlets	2 × DC CCS2, 5.0 m cable · 2 × integrated self-retracting arm
Vehicles at once	Up to 2 · simultaneous dual-connector charging
Power input	3P + N + PE · AC 400 V ± 10 % · 276 A · 50/60 Hz
Cooling	Forced air
Display	23.8" colour touch screen (optionally 15.6" or 10.1")
Authentication	RFID · app · on-screen PIN · Plug&Charge · optional payment terminal (POS), Autocharge
Protocols and connectivity	OCPP 1.6J / OCPP 2.0.1 · dual SIM, GSM/3G/4G · Ethernet · WiFi
Protection / enclosure	IP55 · IK10 · 304 stainless steel · -30 °C to +70 °C (derating above 50 °C)

SUITABLE FOR

Highway rest areas · transport hubs · logistics centres · public charging hubs

Ultra-slim design

Cabinet depth of only 615 mm at 850 mm width. 304 stainless steel and IP55 / IK10 protection for urban and highway sites.

23.8" display for operation and advertising

The large touch screen guides drivers through charging and shows advertising content as an additional revenue stream. Optionally 15.6" or 10.1".

Potted power modules

Fully potted modules resist dust and humidity, deliver over 96 % efficiency and operate from -30 °C to +70 °C (derating above 50 °C).

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Model PVP180 · CCS2 & CCS2 · Specification version V1.1

POWER INPUT

Phases / lines	3P + N + PE
Voltage	AC 400 V ± 10 %
Current	276 A
Frequency	50 / 60 Hz

POWER OUTPUT

Voltage	DC 200–1000 V
Max. current / connector	300 A (400 A short-term, 15 min)
Max. power / connector	180 kW
Total power	180 kW
Charging mode	Simultaneous dual-connector charging
Efficiency	> 96 %
Power factor	> 0.99
Harmonics	iTHD < 5 %

DESIGN AND CONSTRUCTION

Installation	Floor-standing
Charging connectors	2 × DC CCS2 (single-connector version optional)
Cable length	5.0 m (per connector)
LED indicator	Yes (green: standby · blue: charging · red: alarm)
HMI	23.8" colour touch screen (optionally 15.6" or 10.1")
Operation buttons	4 buttons under the screen
Authentication	RFID · app · on-screen PIN · Plug&Charge · optional: payment terminal (POS), Autocharge, other customisation
Energy meter	MID DC meter
Cable management (CMS)	2 × integrated self-retracting swing arm
Enclosure material	High-durability 304 stainless steel
Configurations	1 or 2 connectors · RFID or POS · 23.8" / 15.6" / 10.1" screen

COMMUNICATION

Charger / EV	PLC (DIN 70121 / ISO 15118)
Network interface	Dual SIM · GSM/3G/4G · Ethernet · WiFi
Communication protocol	OCPP 1.6J or OCPP 2.0.1

- 1 A 300 A connector can be boosted to 400 A, a 400 A connector to 500 A and a 500 A liquid-cooled connector to 600 A for 15 minutes.
- 2 CCS1, CHAdeMO or GB/T connector types are available only upon special request.

OPTIONAL EQUIPMENT

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

OPERATING CONDITIONS

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

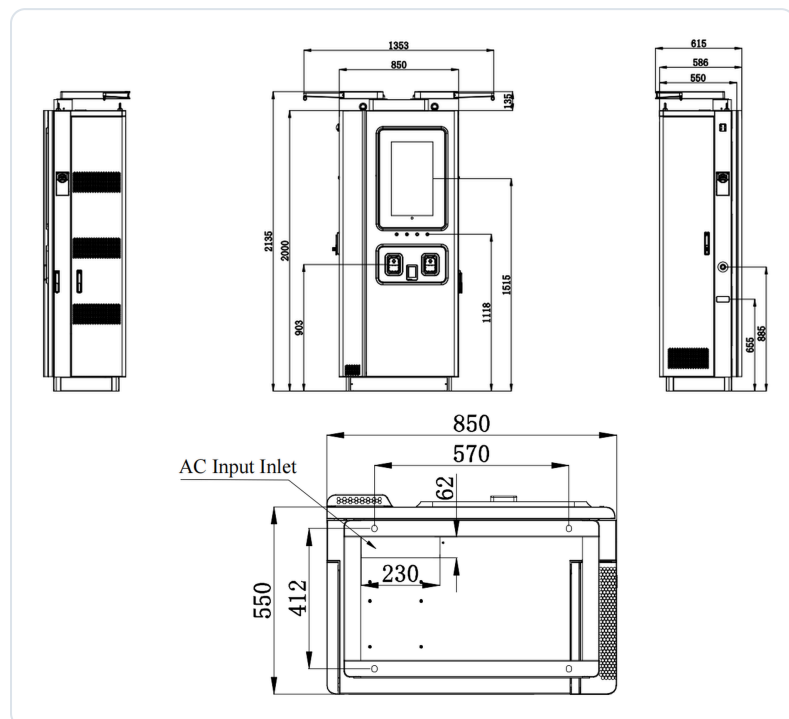
Net weight (without modules)	≤ 430 kg
Gross weight (with modules)	≤ 550 kg
External packing	Wooden crate

STANDARDS AND CERTIFICATION

Certificates	CE / UKCA / TR25
LVD	EN IEC 61851-1:2019 EN IEC 61851-23:2014 EN IEC 61851-24:2014
EMC	EN IEC 61851-21:2021
RED	EN 300 330 V2.1.1 · EN 301 908-13 V13.2.1 · EN 301 908-2 V13.1.1 · EN 301 908-1 V15.2.1 · EN 301 489-1 V2.2.3 · EN 301 489-3 V2.3.2 · EN 301 489-52 V1.2.1 · EN IEC 62311:2020
Additional compliance	IEC 62196-3
Communication to EV	DIN 70121 · ISO/IEC 15118-2 · ISO 15118-20

Polyfazer Vision PRO 180

Model PVP180 · mechanical drawing



Dimensions in mm. Drawing applies to models PVP120 to PVP240 (identical cabinet).
Bottom right: base plate with mounting holes and AC inlet.

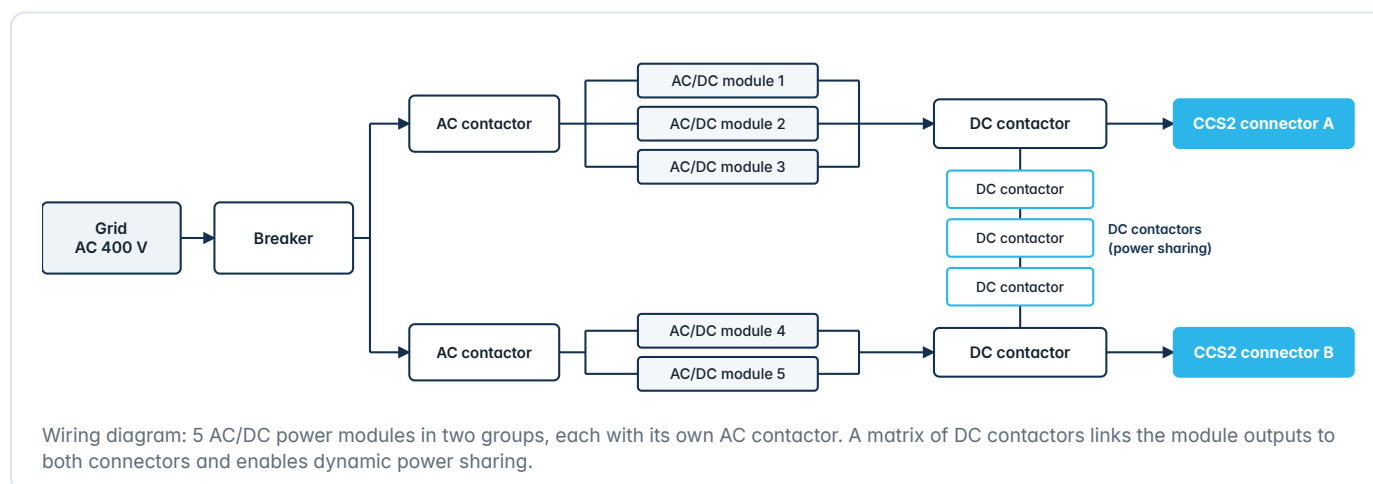
DIMENSIONS AND WEIGHT

Width	850 mm (1353 mm with cable arms)
Height	2135 mm (cabinet body 2000 mm)
Depth	615 mm
Base plate (W × D)	850 × 550 mm
Mounting holes (spacing)	570 × 412 mm
Net weight (without modules)	≤ 430 kg
Gross weight (with modules)	≤ 550 kg

INSTALLATION CONDITIONS

Application site	Indoor / outdoor
Protection grade	IP55 · IK10
Power supply	3P + N + PE · AC 400 V · 276 A
Operating temperature	-30 °C to +70 °C (derating above 50 °C)

CHARGING SYSTEM ARCHITECTURE



Wiring diagram: 5 AC/DC power modules in two groups, each with its own AC contactor. A matrix of DC contactors links the module outputs to both connectors and enables dynamic power sharing.



Hardware, network and support from one partner.

The Polyfazer Vision PRO 180 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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