

Polyfazer Vision PRO 400

Model PVP400 · CCS2 & CCS2

400 kW

400 kW ultra-fast DC charging with N+1 redundancy for highway and logistics hubs.

Standalone Polyfazer Vision PRO 400 station with a total output of 400 kW (up to 480 kW peak) and two CCS2 connectors rated up to 500 A. Up to eight hot-swappable AC/DC power modules with N+1 redundancy, dynamic power allocation between the connectors in steps of 50 kW or less and an efficiency of at least 97 %. OCPP 1.6J with an upgrade path to OCPP 2.0.1, Plug&Charge (ISO 15118-2), RFID, app or PIN authorisation and an optional payment terminal.



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

400 kW

TOTAL POWER

400 / 500 AMAX. CURRENT /
CONNECTOR**150–1000 V**

OUTPUT VOLTAGE

2 × CCS2

CONNECTORS

KEY PARAMETERS

Outlets	2 × DC CCS2, cable ≥ 5.0 m · optional mechanical counterbalance arm
Vehicles at once	Up to 2 · dynamic power allocation in steps of ≤ 50 kW
Power input	3P + N + PE · AC 400 V ± 10 % · ≤ 750 A · 50 Hz
Power modules	Up to 8 × AC/DC, hot-swap capable, N+1 redundancy
Display	≥ 15" colour touch screen (up to 32"), optional dual screen
Authentication	RFID (ISO/IEC 14443 A/B, 15693, NFC) · app · PIN · Plug&Charge (ISO 15118-2) · optional external payment terminal
Protocols and connectivity	OCPP 1.6J (WSS, TLS 1.2/1.3), upgradeable to OCPP 2.0.1 · Modbus TCP/IP · 4G LTE · Gigabit Ethernet
Protection / enclosure	IP55 · IK10 · –30 °C to +50 °C at full rated power

SUITABLE FOR

Highway HPC hubs · transport hubs · logistics and freight · public charging hubs

N+1 redundancy

Up to eight hot-swappable AC/DC power modules. If a module fails, the station keeps charging at reduced power.

Dynamic power allocation

400 kW (480 kW peak) shared between two connectors in steps of 50 kW or less, controlled via OCPP Smart Charging or Modbus TCP/IP.

Up to 500 A per connector

Standard cable 400 A (500 A short-term), optional cooled cable 500 A (600 A short-term). Efficiency of at least 97 %.

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Model PVP400 · CCS2 & CCS2 · Specification version V1.0

POWER INPUT

Phases / lines	3P + N + PE
Voltage	AC 400 V ± 10 %
Current	≤ 750 A (total)
Frequency	50 Hz

POWER OUTPUT

Voltage	DC 150–1000 V
Max. current / connector	400 A, 500 A short-term (≤ 30 min) · cooled cable 500 A, 600 A short-term
Total power	400 kW nominal, up to 480 kW max.
Power allocation	Dynamic, in steps of ≤ 50 kW
Power modules	Up to 8 × AC/DC, hot-swap, N+1 redundancy
Charging mode	Simultaneous dual-connector charging
Efficiency	≥ 97 %
Power factor	> 0.99 (active PFC)
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 (colour LED bar: status and faults)
HMI	≥ 15" touch screen (up to 32") · optional dual screen
Authentication	RFID (ISO/IEC 14443 A/B, 15693, NFC) · app · PIN · Plug&Charge (ISO 15118-2) · optional external payment terminal
Energy meter	MID DC meter, one per connector
Cable management (CMS)	Optional mechanical counterbalance arm
Enclosure material	Powder-coated sheet steel, stainless-steel hardware

COMMUNICATION

Charger / EV	PLC (DIN 70121 / ISO 15118-2)
Network interface	4G LTE (3G fallback) · Gigabit Ethernet · SIM / eSIM
Communication protocol	OCPP 1.6J (WSS, TLS 1.2 / 1.3) · upgradeable to OCPP 2.0.1
Power control	Modbus TCP/IP · OCPP Smart Charging

- Standard uncooled cable: 400 A continuous, 500 A short-term (≤ 30 min). Optional liquid- or air-cooled cable: 500 A continuous, 600 A short-term; up to 2 cooled cables per station.
- Total rated station output of 400 kW (nominal), up to 480 kW (maximum), allocated dynamically between the two connectors in steps of ≤ 50 kW.

OPTIONAL EQUIPMENT

Payment and interface	External POS terminal · screen up to 32" · dual screen
Charging cable	Cooled cable 500 A (600 A short-term), up to 2 per station
Connectivity	eSIM with custom APN configuration
Cable management and branding	Counterbalance arm · custom wrap per client artwork

OPERATING CONDITIONS

Operating temperature	–30 °C to +50 °C (full power)
Operating humidity	5–95 % RH, non-condensing
Operating altitude	≤ 2000 m
Protection grade	IP55
IK rating	IK10
Application site	Indoor / outdoor
Cooling method	Forced air cooling
Noise	< 65 dB(A) at 3 m night mode < 50 dB(A)

SAFETY PROTECTION

Multiple protection	Over / under voltage protection Over current protection Overload protection Short circuit protection Leakage protection (Type A RCD, 30 mA) Over temperature protection Grounding protection (insulation monitoring) Surge protection (T1 + T2 + T3 SPD) Emergency stop (external E-STOP)
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PACKAGING

Net weight (without modules)	≤ 500 kg
Gross weight (shipped)	≤ 700 kg
External packing	Wooden crate

STANDARDS AND CERTIFICATION

Certificates	CE / UKCA / TR25 · IEC 61851-23 (independent body) · MID
LVD	EN IEC 61851-1:2019 EN IEC 61851-23:2014 EN IEC 61851-24:2014
EMC	EN IEC 61851-21-2:2021 · EN IEC 61000-6-2 / -4
RED	EN 300 330 V2.1.1 · EN 301 908 series · EN 301 489 series · EN IEC 62311:2020
Additional compliance	IEC 62196-1 / -3 / -23 · IEC 61643-11 · EN IEC 62368-1
Communication to EV	DIN 70121 · ISO/IEC 15118-2

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Model PVP400 · mechanical drawing

The detailed dimension drawing, base-plate layout and cable-entry positions are provided in the installation drawing supplied with the product documentation.

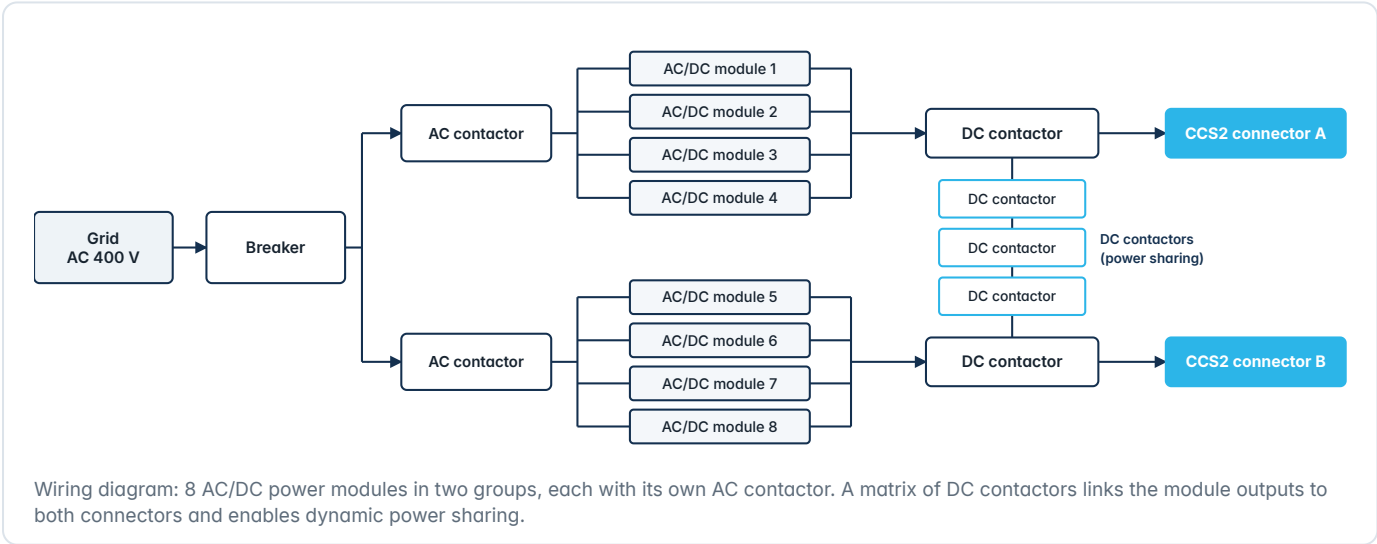
DIMENSIONS AND WEIGHT

Width	≤ 900 mm
Height	≤ 2100 mm (excluding cable management)
Depth	≤ 900 mm
Base plate (W × D)	≤ 1000 × 1000 mm
Net weight (without modules)	≤ 500 kg
Gross weight (with modules)	≤ 700 kg

INSTALLATION CONDITIONS

Application site	Indoor / outdoor
Protection grade	IP55 · IK10
Power supply	3P + N + PE · AC 400 V · ≤ 750 A
Cable entry	Bottom conduit glands, positions per installation drawing
Operating temperature	−30 °C to +50 °C

CHARGING SYSTEM ARCHITECTURE



Hardware, network and support from one partner.

The Polyfazer Vision PRO 400 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.

Supplier: Green24 Holding a.s.
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