

Polyfazer Vision Split 480

Model PVS480 · power cabinet + up to 6 CCS2 dispensers

480 kW



Scalable DC charging hub: one power cabinet, up to 12 CCS2 connectors.

The split system of the Polyfazer Vision range separates the power electronics from the charging points. A central 480 kW cabinet (12 × 40 kW modules) feeds up to 6 dispensers with two CCS2 connectors each, or 12 single-connector dispensers, and its power is allocated between the connected dispensers, up to 300 kW per connector. The compact dispensers with a 7" touch screen and RFID/QR authentication take up minimal space at the bay.



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

480 kW

TOTAL POWER

300 A

MAX. CURRENT /
CONNECTOR

200–1000 V

OUTPUT VOLTAGE

up to 12 × CCS2

CONNECTORS

KEY PARAMETERS

Power cabinet	480 kW · 12 × 40 kW modules (variants 440 kW / 11 modules, 400 kW / 10 modules)
Dispensers	Up to 6 dispensers × 2 CCS2 connectors or 12 dispensers × 1 CCS2 connector
Output / connector	Max. 300 kW · 300 A · DC 200–1000 V · optional liquid-cooled dispenser up to 480 kW / 500 A
Power input	3P + N + PE · AC 400 V ± 10 % · 737 A · 50/60 Hz
Cooling	Forced air
Display	7" colour touch screen (HMI) on every dispenser
Authentication	App · QR code · RFID · payment card · manual start
Payment	Optional integrated Nexgo UN20 terminal with the Polyfazer app
Communication	Ethernet · 4G · OCPP 1.6J
Protection / enclosure	IP55 · IK10 (HMI IK08) · outdoor installation

SUITABLE FOR

Motorway HPC hubs · large car parks and depots · logistics and heavy transport · public charging hubs

One cabinet, up to 12 connectors

The power electronics sit in the cabinet; only compact dispensers (500 × 250 mm) stand at the bays. The hub grows dispenser by dispenser.

Up to 300 kW per connector

Cabinet power is allocated between the connected dispensers; a single CCS2 connector delivers up to 300 kW at 300 A.

Ready for the Polyfazer platform

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

Polyfazer Vision Split 480

Model PVS480 · power cabinet YLUXS480 + dispensers · Specification version V1.0

Power cabinet

POWER INPUT

Phases / lines	3P + N + PE
Voltage	AC 400 V ± 10 %
Current	737 A (480 kW) · 675 A (440 kW) · 614 A (400 kW)
Frequency	50 / 60 Hz
Harmonics	iTHD ≤ 5 %
Power factor	≥ 0.99

POWER OUTPUT

Voltage	DC 200–1000 V
Total power	480 kW
Power modules	12 × 40 kW (variants 440 kW / 11 modules, 400 kW / 10 modules)
Efficiency	≥ 95 % (peak)
Connectable dispensers	Up to 6 × 2 connectors or 12 × 1 connector

OPERATING CONDITIONS

Operating temperature	–30 °C to +50 °C (derating above 50 °C)
Storage temperature	–40 °C to +75 °C
Operating humidity	5–95 % RH, non-condensing
Operating altitude	< 2000 m
Protection grade	IP55
IK rating	IK10 (HMI: IK08)
Application site	Outdoor
Cooling method	Forced air cooling

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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DIMENSIONS AND WEIGHT

W × D × H	1450 × 850 × 2050 mm
Weight	780 kg

Dispenser (charging terminal)

CHARGING OUTPUT

Connectors	Max. 2 × CCS2 (or 1 × CCS2)
Max. current / connector	300 A
Max. power / connector	300 kW
Voltage	DC 200–1000 V
Constant power range	DC 300–1000 V
Energy metering	DC metering (CE)
Cable length	5 m (customised on request)
Efficiency	≥ 95 % (peak)
Liquid-cooled variant	Optional CCS2 dispenser up to 480 kW · 500 A · 500 × 250 × 2000 mm

OPERATION AND COMMUNICATION

HMI	7" colour touch screen
Authentication	App · QR code · RFID · payment card · manual start
Payment solution	Optional: integrated Nexgo UN20 terminal with the Polyfazer payment app
Network	Ethernet / 4G
Charger / EV	PLC (DIN 70121:2014-12 / ISO 15118)
Communication protocol	OCPP 1.6J

OPERATING CONDITIONS

Temperature / humidity / altitude	Same as power cabinet
Protection / application site	IP55 · IK10 (HMI: IK08) · outdoor site
Noise	≤ 65 dB (at ambient temperature)

DIMENSIONS AND WEIGHT

W × D × H	500 × 250 × 1950 mm
Weight	150 kg

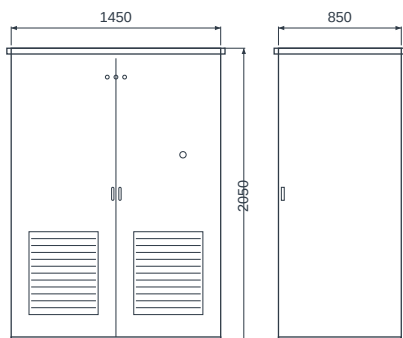
STANDARDS AND CERTIFICATION (SYSTEM)

Certificate	CE
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
Communication to EV	DIN 70121 · ISO/IEC 15118-2

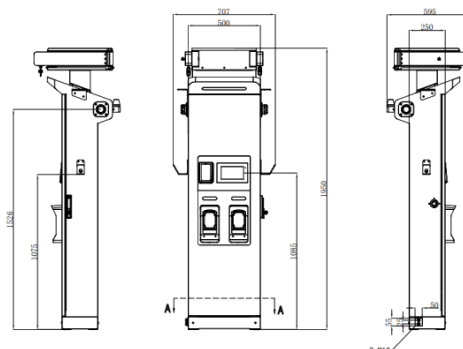
Polyfazer Vision Split 480

Model PVS480 · mechanical drawing

POWER CABINET (DIMENSIONAL DRAWING)



DISPENSER (2 × CCS2)



Dimensions in mm. Left: dimensional outline of the power cabinet (1450 × 850 × 2050 mm, schematic); right: dispenser with two CCS2 connectors (500 × 250 × 1950 mm; 707 × 595 mm including the cable holder).

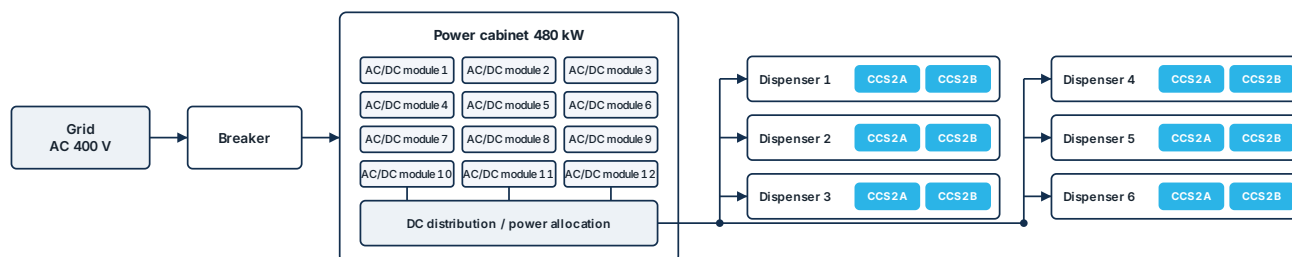
DIMENSIONS AND WEIGHT

Power cabinet (W × D × H)	1450 × 850 × 2050 mm
Cabinet weight	780 kg
Dispenser (W × D × H)	500 × 250 × 1950 mm
Dispenser incl. cable holder	707 × 595 mm (W × D)
Liquid-cooled dispenser (W × D × H)	500 × 250 × 2000 mm
Dispenser weight	150 kg
Dispenser anchoring	2 × M10

INSTALLATION CONDITIONS

Application site	Outdoor
Protection grade	IP55 · IK10 (HMI IK08)
Cabinet power supply	3P + N + PE · AC 400 V · 737 A
Number of dispensers	Up to 6 (2 × CCS2) or 12 (1 × CCS2)
Operating temperature	-30 °C to +50 °C
Packaging	Wooden crate (cabinet and dispensers)

CHARGING SYSTEM ARCHITECTURE



Wiring diagram: the power cabinet with 12 AC/DC modules of 40 kW feeds up to 6 dispensers via the DC distribution, each with two CCS2 connectors (max. 300 kW / 300 A per connector).



Hardware, network and support from one partner.

The Polyfazer Vision Split 480 system 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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