

# Polyfazer Vision PRO 120

Model PVP120 · CCS2 &amp; CCS2

**120 kW**

## Ultra-slim DC fast charger with a large display for urban sites.

Standalone all-in-one station of the Polyfazer Vision PRO range with 120 kW output and two CCS2 connectors (300 A, 400 A short-term). The ultra-slim 304 stainless steel cabinet is only 615 mm deep and saves space in city centres and car parks; 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

**120 kW**

TOTAL POWER

**300 A**MAX. 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 % · 184 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

City centres · retail zones · public car parks · corporate fleets

#### 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).

# Polyfazer Vision PRO 120

Model PVP120 · CCS2 & CCS2 · Specification version V1.1

## POWER INPUT

|                |                 |
|----------------|-----------------|
| Phases / lines | 3P + N + PE     |
| Voltage        | AC 400 V ± 10 % |
| Current        | 184 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   | 120 kW                               |
| Total power              | 120 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<br>Over current protection<br>Overload protection<br>Short circuit protection<br>Leakage protection<br>Over temperature protection<br>Grounding protection<br>Integrated surge protection |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## PACKAGING

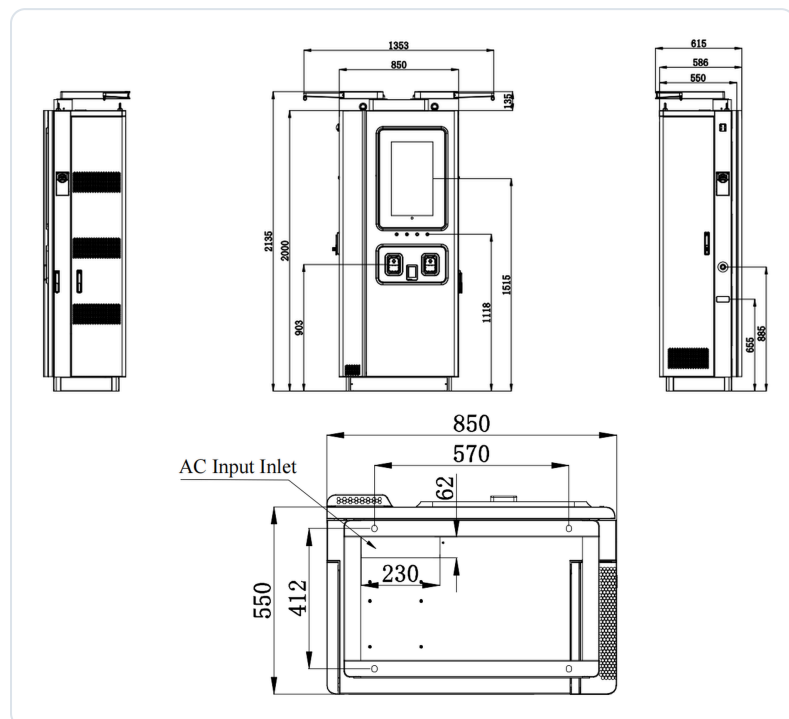
|                              |              |
|------------------------------|--------------|
| Net weight (without modules) | ≤ 430 kg     |
| Gross weight (with modules)  | ≤ 530 kg     |
| External packing             | Wooden crate |

## STANDARDS AND CERTIFICATION

|                       |                                                                                                                                                                                |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Certificates          | CE / UKCA / TR25                                                                                                                                                               |
| LVD                   | EN IEC 61851-1:2019<br>EN IEC 61851-23:2014<br>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 120

Model PVP120 · mechanical drawing



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

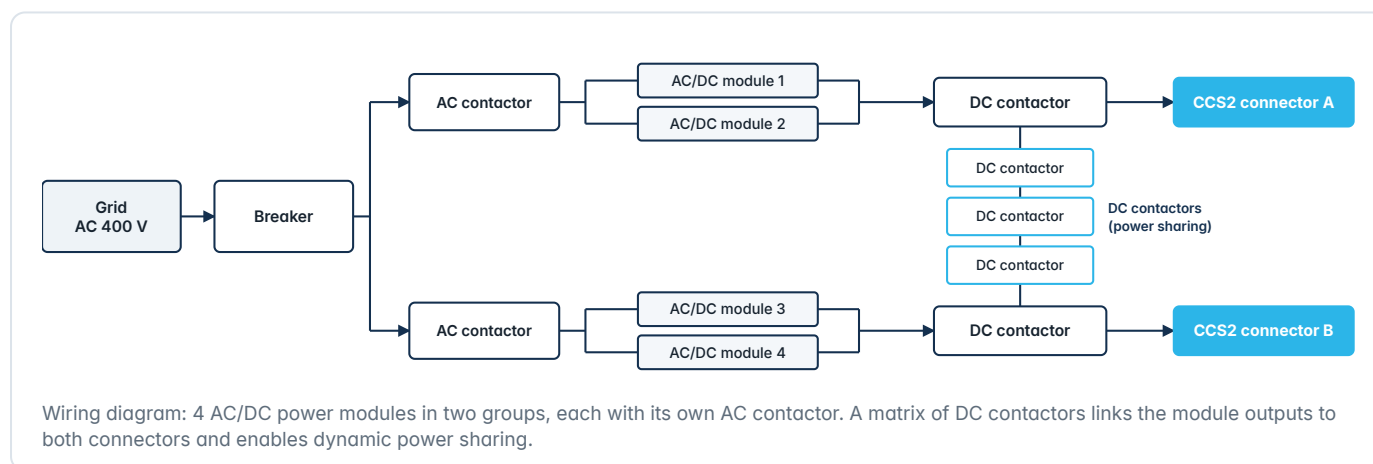
## DIMENSIONS AND WEIGHT

|                              |                                  |
|------------------------------|----------------------------------|
| 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)  | ≤ 530 kg                         |

## INSTALLATION CONDITIONS

|                       |                                         |
|-----------------------|-----------------------------------------|
| Application site      | Indoor / outdoor                        |
| Protection grade      | IP55 · IK10                             |
| Power supply          | 3P + N + PE · AC 400 V · 184 A          |
| Operating temperature | -30 °C to +70 °C (derating above 50 °C) |

## CHARGING SYSTEM ARCHITECTURE



## Hardware, network and support from one partner.

The Polyfazer Vision PRO 120 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.

**Contact:** Jan Vlček

**E-mail:** vlcek@green24.cz

**Web:** polyfazer.com