

# Starvo ChargePro 120

## 120 kW Ultra-Fast DC Charger

ChargePro 120 is Starvo's high-power, outdoor-ready DC fast charger engineered for high-turnover public sites and fleet depots. Featuring a **PDU Modular design** with pluggable modules for quick installation and maintenance, the integrated design ensures stable and reliable charger operation. The unit includes an **HD Advertising Screen** supporting both static and dynamic advertising displays, making it ideal for commercial environments. Designed for **economical operation** by ordinary electricians to reduce maintenance time and cost, the ChargePro 120 offers dual standard charging support with Gun A and Gun B connectors both supporting the European CCS2 standard.

The ChargePro 120 delivers reliable, high-speed charging with comprehensive safety features and smart connectivity. With a wide DC output voltage range of 150–1000 VDC, this charger accommodates modern EV architectures and future vehicle platforms, while OCPP 1.6J protocol ensures seamless integration with the Starvo platform.



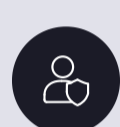
### 120 kW Power

Output power 120 kW, DC output voltage 150–1000 VDC



### OCPP 1.6J

Smart charging profiles, autocharge, GSM/4G modem, 10/100 Base-T Ethernet



### IP54 Rated

Indoor and outdoor rated, operating temp -20°C to +55°C



### 10.1" Touch HMI

LCD touch screen, scan/passcode/plug and play charging modes

## Technical Excellence

### Electrical Specifications

- **AC input voltage:** 380VAC ±15% (three-phase five-wire)
- **Frequency:** 50~60 Hz
- **Power factor:** ≥ 0.98
- **Current THD:** ≤ 5% Above the half
- **Output power:** 120 kW
- **Recommended upstream circuit breaker:** 200 A
- **DC output voltage:** 150–1000 VDC
- **Constant power output voltage:** 300–1000 VDC
- **DC output current of each gun:** 5–200 A
- **Efficiency:** ≥ 95%
- **Precision of steady current:** ± 1%
- **Precision of steady voltage:** ± 0.5%

### Interface and Controller

- **Indicator:** LED (Green, Yellow, Red)
- **User Interface:** 10.1" Touch LCD screen
- **Charging mode:** Scan, passcode, plug and play
- **Network connection:** GSM/4G modem, 10/100 Base-T Ethernet
- **Communication:** OCPP 1.6 core and smart charging profiles, autocharge
- **Operating system:** Starvo apps

### Safety and Protection

- **Short circuit protection:** Yes
- **Over load protection:** Yes
- **Over temperature protection:** Yes
- **Leakage protection:** Yes
- **Over and under input voltage protection:** Yes
- **Over and under output voltage protection:** Yes
- **Connector standards:** IEC 61851-1:2017, IEC 61851-23:2014, EN 61851-24:2014, EN 61851-21-1:2018

## Environment & General Specifications

### Environment

Operating temp -20°C to +55°C, Storage -40°C to +85°C, Humidity ≤95% non-condensing, Altitude 2000 m

### General

Cooling: Fan cooling, Noise ≤65 dB, Protection IP54 (indoor and outdoor rated)

### Physical

Dimensions 1960 × 1040 × 500 mm, Weight 368 kg, Installation: Floor-stand

### Warranty & Cable

Charge cable 5 m, Warranty 1 year, Electric energy measurement: 1.0 Accuracy grade

## Smart Features & Connectivity

1

### HD Advertising Screen

Supports static and dynamic advertising displays for commercial environments

2

### PDU Modular Design

Pluggable modules for quick installation and maintenance with integrated design for stable, reliable operation

3

### Multi-Mode Charging

Scan, passcode, and plug-and-play charging options for flexible user access

4

### Network Ready

OCPP 1.6J, GSM/4G modem, 10/100 Base-T Ethernet connectivity for full remote management

## Comprehensive Safety Systems

The ChargePro 120 incorporates multiple layers of protection to ensure safe, reliable operation in all conditions. Built-in emergency stop functionality provides immediate shutdown capability, while comprehensive voltage and thermal protection safeguard against electrical faults in all environments.



### Short Circuit & Overload

Short circuit and overload protection for reliable and safe operation under all load conditions



### Voltage Protection

Over and under input/output voltage protection systems for comprehensive electrical safeguarding



### Thermal & Leakage

Over-temperature and leakage protection for safe indoor and outdoor operation in all weather conditions

## Physical Specifications

### Dimensions

**H × W × D:**  
1960 × 1040 × 500 mm

### Weight

**Total:**  
368 kg

### Installation

**Type:**  
Floor-standing cabinet



### Power Modules

3 × high-efficiency power modules (40 kW / 1000 V each) with soft-start and low ripple output



### Cable Configuration

2 × CCS2 charging cables with 200A capacity, 5 m standard length, top-mounted cable management

## Typical Applications

The ChargePro 120 is ideally suited for diverse commercial and public charging scenarios where high power, reliability, and user experience are paramount. Its robust design and flexible configuration make it the perfect choice for operators seeking to maximize uptime and customer satisfaction.

### Public Charging Hubs

High-traffic urban locations requiring fast turnaround and maximum availability

### Retail & Hospitality

Shopping centers, hotels, and restaurants offering premium charging amenities

### Workplace Charging

Corporate campuses and office buildings supporting employee EV adoption

### Fleet Depots

Commercial and municipal fleet operations requiring reliable, high-power charging

### Mixed-Use Developments

Residential and commercial complexes with diverse charging requirements

## Contact & Ordering Information

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Contact our sales team for detailed specifications, pricing, installation requirements, and customization options. We provide comprehensive support from site assessment through installation and ongoing maintenance.