

Starvo SIRIUS 120

120 kW DC Ultra-Fast Charger

SIRIUS 120 is Starvo's high-power, outdoor-ready DC fast charger engineered for high-turnover public sites and fleet depots. The cabinet combines a rugged IP55/IK10 enclosure with a 10" touch screen LCD HMI, RFID/QR payment capabilities, and OCPP 1.6J protocol for seamless integration with the Starvo platform. Dual guns with clear A/B user interface maximize bay utilization and operational efficiency.

Designed for demanding commercial environments, the SIRIUS 120 delivers reliable, high-speed charging with comprehensive safety features and smart connectivity. The galvanized-steel cabinet withstands harsh weather conditions from -40°C to +50°C, while the top-mounted cable management system ensures tidy, safe cable handling. With wide output voltage range of 150-1000 VDC, this charger accommodates modern EV architectures and future vehicle platforms.



120 kW Power
Dual CCS2 DC fast charging for public and fleet applications

OCPP 1.6J
Full interoperability with remote monitoring and OTA updates

IP55/IK10 Rated
Outdoor-ready galvanized-steel cabinet for extreme conditions

10" Touch HMI
Intuitive LCD interface with RFID and RGB status LED

Technical Excellence

Input Specifications

- AC voltage:** 3-Phases + N + PE, 380/400 VAC ±10%
- AC current:** 184 A @ 400 VAC
- AC frequency:** 45-65 Hz
- Power factor:** > 0.99
- Total harmonic current:** < 5% at rated input

Environmental Resilience

- Operating temperature:** -40°C to +50°C
- Storage temperature:** -40°C to +75°C
- Humidity range:** 0-95% RH
- Working altitude:** ≤ 2000 m

Output Performance

- DC voltage range:** 150-1000 VDC
- Max DC current:** 2x120 A @ 1000 V; 2x200 A @ 600 V
- Max power:** 120 kW
- System efficiency:** > 95.5%
- Voltage precision:** < ±0.5%
- Current precision:** ≤ ±1%

Standards & Compliance

- CCS PLC:** DIN 70121 & ISO 15118
- EMC/Safety:** CE certified
- Standards:** EN 61000-6-3, EN 61000-6-1 (Class A)
- Charging:** EN 61851-1, EN 61851-23, EN 61851-24
- Protection:** IP55/IK10 (IK08 screen)

Smart Features & Connectivity

1
Advanced HMI
10" touch screen LCD with RFID (ISO/IEC 14443 A/B) and RGB panel LED for clear status indication

2
Precision Metering
DC energy meter compliant with GB/T 50063-2008 and DL/T 5137-2008 standards for accurate billing

3
Multi-Mode Charging
Flexible charging modes: Auto, Time, Amount, Energy, and SOC-based charging options

4
Network Ready
OCPP 1.6J protocol, LAN 10M/100M, internal LTE wireless modem, and Ethernet/3G/4G connectivity

Comprehensive Safety Systems

The SIRIUS 120 incorporates multiple layers of protection to ensure safe, reliable operation in all conditions. Built-in emergency stop functionality provides immediate shutdown capability, while continuous insulation monitoring and protect-earth connection monitoring safeguard against electrical faults. The system actively monitors and protects against over-current, short-circuit, over-voltage, under-voltage, reverse-polarity, and over-temperature conditions.

Emergency Protection
Integrated emergency stop with insulation and earth connection monitoring for immediate fault response

Electrical Safeguards
Over-current, short-circuit, over-voltage, under-voltage, and reverse-polarity protection systems

Thermal Management
Over-temperature protection with optional RCD-A main protection for enhanced safety compliance

Physical Specifications

Dimensions

W × H × D:
750 × 2000 × 650 mm

Weight

Total:
300 kg

Installation

Type:
Floor-standing cabinet

Power Modules
4 × REG1K010G02 modules (30 kW / 1000 V each) with soft-start 3-8 seconds and low ripple output

Cable Configuration
2 × CCS2 charging cables with 200A capacity and top-mounted cable management system

Typical Applications

The SIRIUS 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.