

# Starvo SIRIUS 60

## 60 kW DC Ultra-Fast Charger

SIRIUS 60 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.



**60 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:** 100A @ 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:** 2×60 A @ 1000 V; 2×100 A @ 600 V
- Max power:** 60 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:**  
250 kg

### Installation

**Type:**  
Floor-standing cabinet

**Power Modules**  
2 × 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.