

# Starvo Polaris 240

## 240 kW DC Super Charger

Ultra-fast DC charging for high-turnover public sites, highway corridors, and large fleet depots. Polaris 240 is Starvo's high-power outdoor DC super charger engineered for maximum throughput at demanding locations. 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.



240 kW Power

6 x 40 kW modules for dual CCS2 DC fast charging



OCPP 1.6J

Full interoperability with remote monitoring and OTA updates



IP55/IK10 Rated

Outdoor-ready robust cabinet for extreme conditions



10" Touch HMI

Intuitive LCD interface with RFID and RGB status LED

## Technical Excellence

### Input Specifications

- **Power supply:** 3-Phase, 5-wire
- **AC voltage:** AC 380V ±15%
- **AC frequency:** 50/60 Hz
- **Max input current:** 364 A (at full load)
- **Power factor:** ≥ 0.99
- **Total harmonic current (THDi):** < 5% at rated input

### Output Performance

- **Rated power:** 240 kW total (2 x 120 kW per gun)
- **DC voltage range:** 150–1000 VDC
- **Max DC current per gun:** 350 A (single gun) / 200 A (dual gun)
- **Charging guns:** 2 x CCS2 (Dual)
- **System efficiency:** ≥ 95%
- **Voltage regulation accuracy:** ≤ ±0.5%
- **Current regulation accuracy:** ≤ ±1%

### Environmental Resilience

- **Operating temperature:** -25°C to +55°C
- **Storage temperature:** -40°C to +75°C
- **Humidity range:** 5%–95% RH (non-condensing)
- **Working altitude:** ≤ 2000 m
- **Cooling method:** Forced air cooling
- **Noise level:** ≤ 65 dB

### Standards & Compliance

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

## 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 applicable metering standards for accurate and reliable 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 Ethernet, internal LTE wireless modem with 3G/4G connectivity

## Comprehensive Safety Systems

The Polaris 240 incorporates multiple layers of protection to ensure safe, reliable operation in all conditions. Built-in emergency stop functionality provides immediate shutdown capability, while insulation detection and leakage protection safeguard against electrical faults. The system actively monitors and protects against short-circuit, over-voltage, under-voltage, over-temperature conditions, and includes lightning protection for outdoor resilience.



### Emergency Protection

Integrated emergency stop with insulation detection and leakage protection for immediate fault response



### Electrical Safeguards

Short-circuit, over/under-voltage, output over-voltage, and reverse-polarity protection systems



### Thermal & Environmental

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

## Physical Specifications

### Dimensions

**H x W x D:**  
2046 x 836 x 801 mm

### Weight

**Total:**  
425 kg

### Installation

**Type:**  
Floor-standing cabinet



### Power Modules

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



### Cable Configuration

2 x CCS2 charging cables with 350 A capacity and top-mounted cable management system

## Typical Applications

The Polaris 240 is ideally suited for high-demand commercial and public charging scenarios where maximum 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 and highway corridors requiring ultra-fast turnaround

### Retail & Hospitality

Shopping centers, hotels, and restaurants offering premium fast-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 high-power 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.