

MCS1200 (CE)



Electrifying Logistics with Megawatt Power



Performance
Benchmark

1.2 MW

3 x 400 kW Cabinets

Maximum
Power Delivery

1500 A

Continuous Output

Reliable Energy
Delivery

+99%

Success Rate*

*Operational target

Power Specification

DC Output:	<p>Output power configurations: 1200 kW, 800 kW Output current: up to 1500 A (continuous at 35°C / 95°F)</p> <p>Output voltage: 400 - 980 V Power conversion efficiency: up to 96.5%</p> <p>Number of outlets: MCS single outlet</p>
AC Input:	<p>Nominal voltage: 400 Vac Nominal input current (RMS): 616 A AC power rating: 419 kW Frequency: 50 Hz Earthing systems: TN-S, TN-CS</p> <p>Inlet cable size: 3 ph + PE (no neutral) up to 3 x 300 mm² per phase Power factor: > 0.99 at full load Total Harmonic Distortion (THD): ≤ 5% Overvoltage category: III SPD: Type 1 + 2 SCCR: 65 kA</p>

System Specification

Operating Conditions:	<p>Operating from -30°C to 55°C with derating Storage from 5°C to 40°C, IEC 60721-3-2 Altitude: up to 2000 m Humidity: up to 95%, non-condensing Impact resistance: IK10 IP rating: IP54, indoor and outdoor Single cabinet noise emission: 65 dB(A) avg. within 1 m radius, at 25°C, full power Intended use: indoor and outdoor Mounting options: floor mounted</p>
Form Factor:	<p>Dimensions of charger body (H x W x D): MCS Charge Post: 2044 x 1180 x 502 mm MCS Power Cabinet: 2161 x 810 x 791 mm</p> <p>Weight: MCS Charge Post: 550 kg MCS Power Cabinet: 730 kg</p> <p>Corrosion resistance: C4, ISO 12944</p>

Connection Cabinet - Dispenser

Electrical Connection:	<p>DC Power Cable, per cabinet (up to): 2 x 300 mm² DC +, 2 x 300 mm² DC - Auxiliary AC Supply: 3 x 400/480 Vac; 3 x 2.5 mm² Interlock Cables: 2 wire STP (shielded twisted pair) Distance: 60 m Communication: CAN over Ethernet</p>
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Customer Interface

Display:	Type: 21.5" HD full-color anti-glare LCD; Brightness: 1300 nits; Contrast: 5000:1; Interface: Touchscreen
HMI Configuration:	Info modules: pricing, payment method, help content, idle state info Branding modules: brand color and logo, app QR code, outro screen
Languages:	English, French, Spanish, German, Italian, Norwegian, Dutch
Connector Options:	MCS
MCS Cable:	Length: 2.4 m; Reach: 1.5 m; Type: liquid-cooled
Lighting:	Roof: 360° RGBW LED strip; Gun holder: RGBW LEDs
Authentication Methods:	RFID, credit/debit card, mobile app
RFID System:	Mifare ISO 14443 A/B to part 4 and ISO 15693, ISO 18092/ECMA-340 (NFC)
Emergency Button:	Can be connected to external EMG button
Service Access:	MCS Charge Post: front doors (double door), rear air filter panel MCS Power Cabinet: front and rear doors
Remote Management:	Access control, configuration, diagnostics, software updates ¹

Standards & Compliance

Safety Standards:	IEC 61851-23-3 Megawatt Charging System
EMC:	IEC 61851-21-2, IEC 61000-6-4, IEC 61000-6-2
Manufactured:	Europe
Network Connections:	3G/4G/5G, Ethernet (10/100 Base-T)
OCPP:	Open Charge Point Protocol (OCPP) 1.6J and 2.0.1
Vehicle Communication Protocol:	ISO 15118-20 over 10BaseT1S Ethernet as per MCS standard
RED Directive:	EN 300 330 V2.1.1 2017, EN 50364: 2018 (RFID), EN 301 908-13 V.13.2.1 2022, IEC 62311: 2019, EN IEC 62311: 2020 (4G test)
Additional Standards:	IEC 63379 MCS connector (expected Q4 25)
Expected Lifespan:	10 years ²

¹ Subject to Service Package coverage

² Subject to Service Package coverage, potential refurbishment, and environmental operating conditions including proximity to sea water, conductive dust, and condensing humidity

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