OM M-Series

Modular Power for Scalable Deployment
Air-Cooled | IP54

Field-Upgradable Power

1.2 MW

Output Power

Dynamic Power Allocation

up to 24

Parallel Outlets, Full Peak on Demand

Industry-Leading
Power Density

625 kW/m²

Maximized Space Utilization

Power Specification

Power Configuration:	M200: 200 kW (1 cabinet) M400: 400 kW (1 cabinet) M800: 800 kW (2 cabinets) M1200: 1200 kW (3 cabinets)
DC Output: **(per cabinet)**	Output current: 1200 A Dynamic Power Sharing: 50 kW granularity Compatible dispensers: OM Solo, Duo, Dock, Ultra Configuration of outlets: M200: up to 4 outlets M400: up to 8 outlets M800: up to 16 outlets M1200: up to 24 outlets Output voltage: 150 - 980 V Power conversion efficiency: up to 97%
AC Input: **(per cabinet)**	Nominal voltage: (CE): 400 V (±10%) (NA): 480 V (±10%) Nominal input current (RMS): (CE): 612 A (NA): 510 A AC power rating: 419 kW Frequency: (CE): 50 Hz (±5%) (NA): 60 Hz (±5%) Earthing systems: (CE): TT, TN-C, TN-S, TNC-S (NA): WYE Inlet cable size: 3 ph + PE (no neutral) up to 4 x 300 mm^2 per phase Power factor: > 0.99 at full load Total Harmonic Distortion (THD): < 3% Overvoltage category: III SPD: (CE): Type 1 + 2 (NA): Type 1 SCCR: (CE): 50 kA (NA): 65 kA

Customer Interface

Emergency Button:	Can be connected to external EMG button
Service Access:	Front and rear doors
Remote Management:	Access control, configuration, diagnostics, software updates[1]

System Specification

Operating Conditions:	Operating from -30°C to 55°C (-22°F to 131°F) with derating Storage from 5°C to 40°C (41°F to 104°F), IEC 60721-3-1 Altitude: up to 2000 m (6562 ft) Humidity: up to 95%, non-condensing Impact resistance: IK10 IP rating: IP54, NEMA 3R (in development), indoor and outdoor Single cabinet noise emission: 65 dB(A) avg. within 1 m radius, at 25°C (77°F), full power Intended use: indoor and outdoor Mounting options: floor mounted
Form Factor: (per cabinet)	Dimensions (H x W x D): 2161 x 810 x 791 mm (85.0 x 31.9 x 31.1 in) Weight: 730 kg (1609 lbs) Corrosion resistance: C5-H, ISO 12944

Connection Cabinet - Dispenser

DC Power Cable:	8 x 150 mm^2 - 300 mm^2 DC+, 8 x 150 - 300 mm^2 DC-, 8 x 35 mm^2 PE
Auxiliary AC Supply:	8 x 400/480 Vac, 3 x 2.5 mm^2 + PE
Interlock Cables:	8 x 2 x 2.5 mm^2 shielded
Distance & Communication:	8 x CAT 5e / CAT 6 Distance: 100 m (328 ft), 150 m (492 ft) (in development)

Standards & Compliance

Safety Standards:	(CE): IEC 61851-1: 2017/COR1: 2023, IEC 61851-23: 2014/COR1: 2016, IEC 61439-7: 2022 (NA): UL2202 Ed.2, UL2231-1 Ed.2, UL2231-2 Ed.2, CSA22.2 No.346: 22
EMC:	(CE): ETSI EN 301 489-1 , ETSI EN 301 489-52, IC 61851-21-2: 2018 (NA): FCC 47 CFR Part 15B (Class A)
Manufactured:	Europe & USA
Network Connections:	3G/4G/5G, Ethernet (10/100 Base-T) to control system, optional second 5G modem
OCPP:	Open Charge Point Protocol (OCPP) 1.6J and 2.0.1
Vehicle Communication Protocols:	DIN SPEC 70121, ISO 15118-2, ISO 15118-20, ISO 15118-3, Autocharge, Plug & Charge
RED Directive:	Compliant
Expected Lifespan:	10 years[2]

[1] Subject to Service Package coverage
[2] Expectation based on uninterrupted Service Package coverage, possible refurbishment based on use, and use in suitable environmental conditions including limited proximity to sea water, conductive dust, and condensing humidity

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