

# OM X-Series

The Power to Operate in Extreme Conditions  
Liquid-Cooled | IP 65



Scalable Output

**800+ kW**

Expandable Architecture

Distributed Energy  
Platform

**DC BUS**

BESS and Solar Integration ready

Optimized Conversion  
Efficiency

up to  
**98%**

With Liquid-Cooling Technology

# Power Specification

<b>Power Configuration:</b>	X800: up to 800 kW (1 cabinet) X1600: up to 1600 kW (2 cabinets)
<b>DC Output: (per cabinet)</b>	Output current: up to 2160 A Dynamic Power Sharing: 66.5 kW granularity  Compatible dispensers: OM Solo, Duo, Dock, Ultra  Configuration of outlets: X800: up to 12 outlets X1600: up to 24 outlets  AC/DC rated power: 750 kW DC/DC rated power: 800 kW  AC/DC power modules: 125 kW at 400 VAC 150 kW at 480 VAC  Output voltage: 200 - 950 VDC Power conversion efficiency: up to 98%
<b>AC Input: (per cabinet)</b>	Nominal voltage: (CE): 400 VAC ( $\pm 10\%$ ) (NA): 480 VAC ( $\pm 10\%$ )  Nominal input current: (CE): 1110 A (NA): 921 A  Upstream breaker: (CE): 1600 A (NA): 1200 A  Frequency: (CE): 50 Hz ( $\pm 4\%$ ) (NA): 60 Hz ( $\pm 4\%$ )
<b>DC Bus:</b>	Rated current: 1000 A

# Customer Interface

<b>Emergency Button:</b>	Can be connected to external EMG button
<b>Service Access:</b>	Front and rear doors
<b>Remote Management:</b>	Access control, configuration, diagnostics, software updates <sup>1</sup>

# System Specification

<b>Operating Conditions:</b>	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: IP65/NEMA 4X
<b>Form Factor: (per cabinet)</b>	Dimensions (H x W x D): 2150 x 1830 x 1020 mm (84.6 x 72.0 x 40.2 in)
	Weight: 2500 kg

## Connection Cabinet - Dispenser

<b>DC Power Cable:</b>	12 x up to 300 mm <sup>2</sup> (max.) DC+, 12 x up to 300 mm <sup>2</sup> (max.) DC-, 12 x 35 mm <sup>2</sup> PE
<b>Auxiliary 400/480 VAC Supply:</b>	12 x 3 phs + PE, 4 x 2.5 mm <sup>2</sup>
<b>Interlock Cables:</b>	12 x 2 x 2.5 mm <sup>2</sup> shielded
<b>Distance &amp; Communication:</b>	12 x CAT 5e / CAT 6 Distance: 100 m (328 ft), up to 150 m (492 ft) (in development)

## Standards & Compliance

<b>Safety Standards:</b>	IEC 61851-1 ed 3, IEC 61851-23 ed 2, IEC 61851-24 ed 1, IEC 62477-1, IEC 61439-7, UL 2202, UL 2231-1, UL 2231-2, CSA 22.2
<b>EMC:</b>	(CE): IEC 61851-21-2:2018, IEC 61000 Class A Conducted and Radiated (NA): FCC part 15
<b>Network Connections:</b>	3G/4G/5G, Ethernet (10/100 Base-T) to control system
<b>Manufactured:</b>	USA & Europe
<b>Expected Lifespan:</b>	15 years <sup>2</sup>

<sup>1</sup> Subject to Service Package coverage

<sup>2</sup> Subject to Service Package coverage, potential refurbishment based on utilization, and environmental operating conditions including proximity to sea water, conductive dust, and condensing humidity

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