

600-800kW Distributed Charging System

OB-600SF/OB-640SF/OB-720SF/OB-800SF



More Efficient

- Max. 600A ultra-fast Charging
- Max. efficiency up to 96.5%
- Acoustic noise $\leq 65\text{dB}$ though innovative airflow architecture
- Fully output power without derating up to $+50^{\circ}\text{C}$



More Intelligent

- Scalable power from 600-800kW
- Flexible configuration of air & liquid-cooled dispensers
- Innovative efficiency & power optimization algorithm
- Dual cabinet expansion up to 1.2-1.6MW



More Reliable

- IP55 protection & C4-H anti-corrosion
- Comprehensive protection measures ensure charging safety
- Charging modules in-position detection
- Charging modules lifespan balanced algorithm



More User-friendly

- Supports multiple authentication and payment options
- Swing arm CMS delivers an intuitive & seamless experience
- Barrier-free design for easy access
- Cloud platform & Web-interface allow for remote configuration, monitoring, diagnostics, and OTA updates

Technical Specification

Technical parameters		OB-600SF/OB-640SF/OB-720SF/OB-800SF Power Unit
AC INPUT	Nominal voltage	3 / N / PE, 400 Vac (±15 %)
	Nominal frequency	50 Hz / 60 Hz (±5%)
	Power factor	≥ 0.99 at full load
	Total harmonic distortion (THDi)	< 5 % at full load
	Overvoltage category	III
DC OUTPUT	Max. output power	800kW
	Min. granularity of output power	80kW
	Output voltage range	150 Vdc - 1000 Vdc
	Max. number of output	8
	Max. efficiency	96.5%
Mechanical Specification	Dimensions (W*D*H)	1800 * 1000 * 1900 mm
	Enclosure rating	IP55
	Impact resistance	IK10
	Anti-corrosion degree	C4-H
	Mounting	Floor mounted
Environment Specification	Operating temperature	-30° up to +55°C (with derating above +50°C)
	Operating humidity range	5 % - 95 % (non-condensing)
	Operating altitude	≤ 2000 m
	Noise emission	≤ 65 dB (A) at 1 m distance / 25 °C, at full output power
	Ventilation	Air-cooled
User Interface	Display	LED indicator
	Emergency stop button	Yes
	Communication interface	Ethernet / 4G
	Firmware update	Over-the-air update
Protection	Over/Under voltage protection	Yes
	Overload protection	Yes
	Over temperature protection	Yes
	Leakage current protection	Yes
	Surge protection	Yes
	Short-circuit protection	Yes
Standards & Compliance	Compliance	EN IEC 61851-1、EN IEC 61851-21-2、EN IEC 61851-23、EN IEC 61851-24、EN IEC 62311

Technical parameters		Air-cooled dispenser	Liquid-cooled dispenser
DC OUTPUT	Cable configuration	Dual cable	
	Cable connection options	250 A / 350 A (boost 500A)	500A (boost 600A)
	Cable length	5 m / 7 m (optional)	5 m
	Output voltage range	150 Vdc - 1000 Vdc	
	Connector type	CCS2	
Mechanical Specification	Dimensions (W*D*H)	600 mm * 400 mm * 2010 mm (with CMS) 600 mm * 400 mm * 1850 mm (without CMS)	
	Enclosure rating	IP55	
	Impact resistance	IK10 (enclosure)	
	Anti-corrosion degree	C4-H	
	Mounting	Floor mounted	
Environment Specification	Operating temperature	-30° up to +55°C (with derating above +50°C)	
	Operating humidity range	5 % - 95 % (non-condensing)	
	Operating altitude	≤ 2000 m	
	Noise emission	≤ 60 dB (A) at 1 m distance / 25 °C, at full output power	
	Cooling method	Air-cooled	Liquid-cooled
User Interface	Display & operation	10 "color touchable screen + LED indicator + 4 buttons	
	Emergency stop button	Optional	
	Cable management system	2 x self-retracting swing arm (optional)	
	Authentication methods	RFID-card / QR code / Auto-charge/ Credit card (optional)	
	Energy meter	MID-certified DC energy meter (optional)	
	Communication interface	Ethernet / 4G	
	Communication to EV	DIN70121 , ISO15118	
	Communication to backend	OCPP 1.6 J Ready for OCPP 2.0.1	
	Firmware update	Over-the-air update	
	Multilanguage system	English Other languages available by firmware upgrade	
Standards & Compliance	Compliance	EN IEC 61851-1、EN IEC 61851-21-2、EN IEC 61851-23、EN IEC 61851-24、EN IEC 62311	
Others	Warranty	2 years (standard)	