

EVA 5420W, EVA 5430W IP54, 20kw & 30kw DC EV charger

- In-house developed controllers, CCS and OCPP charging modules
- Wider DC voltage range 300v to 1000v constant power, faster charging efficiency
- The charger had successfully passed 33 sets of rigorous environmental and thermal shock tests from -35°C to 55°C to ensure the system reliability
- Adapting OCPP network security protocol to implement the OTA feature
- Passed cloud network protocol test and was verified by OCTT
- Passed vehicle end protocol DIN 70121, ISO15118, and was verified by TUV
- Multilingual support for 7" colored touch LCD
- The Linux 5.10 OS and CPU conformed with cybersecurity standards
- Third-party certificated CE EN61851



Specification

MODEL		EVA 5420W	EVA 5430W
Charging Type		DC fast charging	
Outlet Options		C: CCS2 cable , A: CCS1 cable , J: CHAdeMO cable , G: GBT cable	
AC Input Power		31A, 22 kVA @ 400V 50Hz	48 A, 33 kVA @ 400V 50Hz
Input Voltage Range		400 VAC or 380 VAC +/- 10%	
Input Frequency		50 Hz or 60 Hz	
DC Output Power Rating (MAX)		20 kW	30 kW
DC Output Voltage		200-1000 Vdc (Constant power from 300-1000Vdc)	
Number of EV Served		Up to 2 (JC, JA models) ; Up to 1 (C, A,J, G models)	
Cable Length		5.0 m, Optional: 6.0 m / 7.0 m	
Maximum Current	CCS Cables	80A	100A
	CHAdeMO Cables	80A	100A
	GBT cables	80A	100A
Electro-Magnetic Compatibility		Class A (optional Class B) according to EN 61000-6-3:2007	
Distribution Systems		TN-S, TN-C, TN-C-S, TT (required external RCD)	
Connector Type		3P + N + PE	
Protection		Overcurrent, overvoltage, undervoltage, integrated surge protection, ground fault including DC leakage protection, door opening protection	
Overvoltage Category		Type II	
Power Factor (Full Load)		≥ 0.98	
THDi		≤ 5%	
Efficiency		93% (peak)	
Standby Power		< 35 W	
Short Circuit Current		10 kA	
Pre-charge Current		< 1 A	
Inrush Current		< 55 A	
Leakage Current		0.8 mA	
Energy Metering		Standard: Meter for DC outlet, Optional: AC inlet	
Cellular Communication		GSM, 4G, LTE	

USER INTERFACE

Connectivity	Internet access via 4G/3G/Ethernet (RJ45)
User Authentication	RFID, QR code
User Interface	7" LCD high-contrast touchscreen
Communication Protocols	Proprietary and OCPP 1.6J
RFID Reader	ISO/IEC 14443 A/B Mifare RFID reader
Emergency Button	Yes
Language System	English, Chinese, French, Spanish

GENERAL CHARACTERISTIC

Protection Rating	IP54 and IK10 (cabinet) / IK8 (touchscreen)
Housing Material	SGCC, Optional: SUS430
Operating Altitude	Up to 2000 m
Operating Temperature	-35 °C to 55 °C
Storage Temperature	-40 °C to 70 °C
Humidity	< 95%, non-condensing
Mounting	Wall-mount or pedestal stand
Dimensions (D x W x H) mm	200 x 450 x 600
Net Weight (kgs)	44

COMPLIANCE STANDARDS

Codes & Standards	IEC 61851-21-2, IEC 61000, IEC/EN 61851-1, IEC 61851-23, IEC 61851-24, IEC 62196-1, IEC 62196-3, GBT18487, GBT20234, NB/T 33008.1, NB/T 33001
Communication to the EV	DIN 70121, ISO/IEC 15118, CHAdeMO 1.6J, GBT27930, GBT 34657, GBT 34658

Product specifications are subject to change without further notice