

EN120K2

FAST EV CHARGING STATION 120 kW

Product information



The EN120K2 charging station is used for fast charging electric vehicles. The product features high efficiency, power and reliability, as well as harsh environment resistance. It complies with global electric vehicle charging standards. The maximum DC charging power is 120kW. However, 150kW or 180kW configurations are possible. The maximum charging current reaches 300A. The unit is three-phase powered, with an available output voltage range of 150V to 1000V.

Features

- Support for CCS-2, CHAdeMO, AC Type 2 or outlet support
- OCPP 1.6J support with SW upgrade to 2.0, smart charging and battery management support
- Capable of charging two vehicles at the same time - total power achieved is 120 kW
- User-friendly interface with 7" LCD touch screen display with tempered glass
- LAN and LTE support
- RFID support and cashless payment support
- High waterproof device IP55, resistant to aggressive environment
- Numerous charging modes: automatic full, timed, partial, relative to the amount of energy, to a specific SoC
- Power switch between two DC connectors
- Functions for high safety of use: EPO, SPD, RCP, insulation condition monitoring
- Internal AC, DC meter

Basic parameters

- DC output power 120kW
- AC output power 22kW
- Maximum system efficiency $\geq 95\%$

Safety

- Compliance with CE, EN 61851-1-2001; EN 61851-21-2001; EN 61851-22-2001
- Compliance with EN61000-6-3 and EN61000-6-1 Class A

Application

- Bus depots
- Workplaces
- Gas stations
- Parking lots

Specifications

	Name of parameter	Unit	Parameter
Output – basic parameters	DC output power (max)	kW	180
	AC output power	kVA	22
	AC output current	A	32
	DC output voltage range	V	150 – 1000
	Maximum output current	A	600A@300V/ 360A@500V/ 180A@1000V
	Current limit	A	250A/CCS (optional 300A) – 125A/CHAdEMO
	Accuracy of voltage stabilization	%	≤ ± 0,5
	Accuracy of current stabilization	%	≤ ± 3
AC input - basic parameters	Input voltage	VAC	260 – 530 (3 phases + N + PE)
	Frequency range	Hz	45 – 65
	THD	%	≤ 5%
	Power factor	-	≥ 0.99
Environmental conditions	Operation temperature	°C	-20 ~ +70 (limited to 50)
	Storage temperature	°C	- 40 ~ +75
	Humidity	%	0 ~ +95
	Hight	m ABSL	<2000
Mechanical parameters	Dimensions H x W x L	mm	700 x 1750 x 750
	Mass	kg	400 + 21*X (X denotes the number of modules)
	Protection level		IP55/K10
	Installation of the charger		On the fundament

	Technical data	Description
Features and interface	HMI	Touchscreen display LCD 7", Service LAN, RFID and LTE, LED panel, possibility to install POS machine
	Energy consumption measurement	AC current meter, DC current meter, DL/T 5137-2008 standard
	Control protocol	10M/100M LAN and standard LTE network, OCPP 1.6J
	Security	RCD-B (optional), E-stop, AC residual current device
	Charging and billing modes	Automatic full charging, Time charging, Partial charging, Charging a specific amount of energy, Charging to a specific SOC
	DC charging for two vehicles	Each DC output can be controlled by priority (full charging power/half charging power/no charging)
	Protection of charger	Over-current protection, short-circuit protection, over-voltage protection, under-voltage protection, insulation monitoring, ground monitoring, common ground protection for the output of two charging plugs, reverse polarity battery protection, overheat protection
Standard	CSS PLC Communication	DIN70121, ISO15118
	CHAdEMO	CHAdEMO V1.2
	Safety	Compliance with CE, EN 61851-1/EN 61851-23/EN 61851-24
	EMC	UL2202, CE, EN61000-6-3/EN61000-6-1 class A



DISTRABUTOR:

* the manufacturer reserves the right to change the appearance and parameters of the product