EN180K2

EV 180kW Charging station

Product information

Charging station EN180K2 is used for charging electric vehicles. The product features high efficiency, power and reliability as well as harsh environment resistance. The unit complies with global electric vehicles charging standards. Maximum DC charging power is 180kW. However 150kW or 120kW configurations are possible. Maximum charging current reaches 300A. The unit is three-phase powered with an available output voltage range from 150V to 1000V.

Functionality

- CCS-2, CHAdeMO, AC Type 2 cable or socket
- OCPP 1.6J support with SW update to SW 2.0, intelligent charging and battery management
- Capable of charging two vehicles at the same time - total power achieved is 180 kW
- User-friendly interface with 7" LCD touch screen display with tempered glass
- LAN and LTE
- RFID and cashless payment
- High tightness of the device IP55, resistance to aggressive environment
- Variety of charging modes: automatic full, timed, partial, relative to the amount of energy, to a specific SoC
- Power switch between two DC connectors
- Features ensuring high safety of use: EPO, SPD, RCP, condition of insulation monitor
- Internal AC, DC meter

Basic parameters

- DC output power 180kW
- AC output power 22kW
- Maximum system efficiency ≥ 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

Applications

- Bus depots
- Workplaces
- Gas stations
- Parking lots

Specification

Parameter		Unit	Value
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 (opcjonalnie 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 (limit from 50)
	Storage temperature	°C	- 40 - 75
	Humidity	%	0 – 95
	Hight	m ABSL	<2000
Mechanical parameters	Wymiary H x W x D	mm	700 x 1750 x 750
	Mass	kg	400+21*X (X oznacza ilość modułów)
	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
	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, residual current device AC
	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 z CE, EN 61851-1/EN 61851-23/EN 61851-24
	EMC	UL2202, CE, EN61000-6-3/EN61000-6-1 A class

DYSTRYBUTOR

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