

SEED100

100KW DC fast charger

- Dynamic power sharing
- CCS2, CHAdeMO and AC type2 multi-protocol
- Power scalability from 50KW to 100KW
- Double voltage range 500Vdc and 1000Vdc
- OCPP integration
- Highly reliable and safe, resistant and anti-vandal
- Low maintenance, low energy consumption
- Easy to install, easy to use
- Bi-directional V2G (optional)
- Compact and stylish italian design
- Customizable for branding



SEED100 is a highly flexible, multi-standard 1000Vdc DC charging station. The charger allows the simultaneous charging of 3 vehicles, two DC up to 100KW and one AC type 2 da 43KW. With the “Dynamic Power Sharing” function, the electric power is dynamically distributed so as to charge each vehicle with its power. In addition, the station adjusts the total output power in function of grid condition (Grid load management).

SEED100 supports present 500 Vdc and next generation 920 Vdc voltage range, adjusting max current in function of the voltage (max 200A at 500V, max 100A at 1000Vdc). SEED100 has been designed keeping in mind the needs of the owner of the electric vehicle and those of the operator: safety, ease of use and speed in charging

operations; low install cost, reliability, low maintenance, low consumption, scalability, quick assistance and support.

Internet connection and OCPP integration allow users and operators to easily connect and operate with the charger through different back-office software systems, payment platforms or smart grid systems. The bi-directional V2G option allows an EV to be used as an electric storage system so as to power the grid, thus supporting grid reliability and stability and lowering rates on the energy supply tariffs.

SEED100 can be customized with logos and special stylish color combinations: i.e. glossy black and aluminium, champagne and dark gray or orange and aluminum.

Specifications

Plug	DC CCS IEC 62196-3	DC CHAdeMO JEVS G105	AC Type 2 cable IEC 62196 Mode 3
Output voltage	range 1: 150–500Vdc range 2: 300-1000Vdc	150–500Vdc	400 VAC +/- 10%
Output current, max	range 1 (500V): 200A range 2 (1000V): 128A	125 A	3 x 63 A
Output power	25KW - 100KW		43 W
Efficiency	93,5%		-
Power factor	>0,99 @ 400Vac & Rated Power (THD<5%)		-
Protection and safety	Plugs electric separation, Short circuit output, Overcurrent, Reverse current, Overvoltage, Low-voltage, Earth monitor, Isolation monitor, Overtemperature (output power derating at > 50°C internal)		Earth monitor, overcurrent, residual current (Type B)

Common features

Input AC	400 VAC +/- 10% / 3phase + PE / 45-65 Hz
Cable lengths	4 mt
Operator's interface	TFT LCD color 7", touch screen
Authentication and payment	RFID – NFC Contactless Payment
Network connection	10/100 Base-T Ethernet Optional: GSM CDMA 3G modem,
Remote access protocol	OCPP 1.6, OCPP 2.0
Operating temperature	-20°C to +45°C / optional: -35°C to 50°C
Storage temperature	-40°C to +70°C
Rel. humidity	5% to 95% (non-condensing)
Protection degree	IP54 / IK10 (IK8 display)
Enclosure / Environment	Painted stainless steel / indoor and outdoor
Safety & EMC	Safety: IEC 61851-1, IEC 61439-2 EMC: EN 61000-6-1, -2, -3, 4, EN 61000-3-2
Dimensions LxDxH / weight	mm 860 x 800 x 1900 / 450 Kg approx
Options	Bi-directional V2G 12,5 or 25 KW / Matt polycarbonate cover for rain and sun protection /LED lighting, remote LED indicators of charging status and fault, custom colour combination and logos / CHAdeMO certification

