

SEED50

50KW DC fast charger

- Configurable single, dual or triple outlet: CCS2, CHAdeMO, AC type2
- DC power up to 50 kW, AC power 22 or 43KW
- Voltage range 150-500Vdc
- (Option) double voltage range 500Vdc and 1000Vdc
- OCPP 1.6 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

SEED50 is a 50 KW configurable multi-standard DC charging station CCS combo 2 and/or CHAdeMO. SEED50 supports present 500 Vdc and next generation 920 Vdc voltage range, adjusting max current in function of the voltage: max 125A at 400V (CCS and CHAdeMO), max 50A at 1000Vdc (CCS only).

SEED50 can be equipped with one AC type 2 43KW plug (standard) or 22KW (plug or socket) as option.

SEED50 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.

SEED50 can be customized with logos and special stylish color combinations: i.e. glossy black and aluminum, 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	150–500Vdc (option) 150-1000Vdc	150–500Vdc	400 VAC +/- 10%
Output current, max	125A (1000V option) 50A	125 A (400V)	3 x 63 A (43KW plug) 3 x 32 A (22KW plug or socket)
Output power	Max 50KW, not shareable		43 KW (plug) / 22 KW (plug or socket)
Efficiency	93%–96.5% when over 10% load		
Power factor	>0,99 @ 400Vac, full load		
Protection and safety	Surge protection, Short circuit output, Overcurrent, Overvoltage, Low-voltage, Earth monitor, Insulation monitor, Overtemperature		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
Operating temperature	-20°C to +50°C / optional: -35°C to 50°C
Storage temperature	-40°C to +70°C
Rel. humidity	5% to 95% (non-condensing)
Altitude	Up to 1000 m (derating for 1000+ m)
Noise	< 55dB
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 845 x 648 x 1898 / 450 Kg approx
Options	1000V max / Bi-directional V2G / 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

