

SEED400

180 to 400KW ultrafast charger

- Compact, High Power, All In One
- Dynamic power sharing
- 2 charging connectors:
 - 2xCCS2 dry or liquid cooled cable up to 600A
 - (optional) 1 x CHAdeMO 200A
- Voltage range 150-1000Vdc
- OCPP integration
- Highly reliable and safe, resistant and anti-vandal
- Low maintenance, low energy consumption
- Easy to install, easy to use
- Compact and stylish Italian design
- Customizable for branding
- Scalable 180, 240, 320 and 400KW



SEED400 is a highly flexible, multi-standard 1000Vdc DC charging station. The charger allows the simultaneous charging of 2 vehicles, **two DC up to 400KW 1200A total current**. With the “Dynamic Power Sharing” function, the DC power is dynamically distributed to charge each vehicle with half of total power or with max power possible, depending on the cable’s max current capacity. In addition, the station adjusts the total output power in function of grid condition (Grid load management).

SEED400 has 150-1000 voltage range and one optional additional max 200A CHAdeMO cable.

SEED400 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 fast 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-end software systems, payment platforms or smart grid systems.

SEED400 can be customized with logos and special stylish colour combinations: i.e. glossy black and aluminum, champagne and dark grey or orange and aluminum.

Specifications

Plug	DC CCS2 (plug B) IEC 62196-3
Output voltage	150–1000Vdc
Output current,	2x400A dry cables (500A for 15 min max) 2x600A liquid cables (cooling unit needed)
Max output power	1x400KW CCS2 or 2x200KW CCS2 (optional) 1xCCS2 300KW + 1xCHAdEMO 100KW 200A
Efficiency	93%~96.5% with load >10%
Power factor	>0,99 @ 400Vac & Rated Power (THD<5%)
Protection and safety	Plugs electric galvanic separation, Short circuit output, Overcurrent, Reverse current, Overvoltage, Low-voltage, Earth monitor, Isolation monitor, Overtemperature (output power derating when T > 50°C internal temperature)

Other common features

Input AC	400 VAC +/- 10% / 3phase + PE / 45-65 Hz				
	kW	Iac	I inrush	Adc+Aac	Inrush AC+DC
	180	308	362	344	397
	240	411	482	446	517
	300	514	602	549	637
	320	548	642	583	678
	400	685	802	720	838
Cable lengths	5 mt				
Operator's interface	TFT LCD color 7", touch screen				
Authentication and payment	RFID reader ISO15693+ISO14443A/B, Mifare S50 / S70, Mifare Ultralight, NFC Tag and compatible card - (Optional) Anonymous credit card payment terminal				
(Option) Energy meter	<ul style="list-style-type: none"> - DC energy meter with calibration certificates - (Optional) MID/EichrechtsKonform (compliant with German Calibration Law) 				
Network connection	10/100 Base-T Ethernet, Wi-Fi GSM 3G/4G LTE CDMA, (optional) GPS				
Remote access protocol	OCPP 1.6 Json				
Operating amb. temperature	-25°C to +50°C (derating >40°C ambient) / optional: -35°C to 50°C				
Storage temperature	-35°C to +60°C				
Rel. humidity	5% to 95% (non-condensing)				
Protection degree	IP54 / IK10 (IK8 display)				
Enclosure / Environment	Galvanised steel (anti-corrosion treatment and powder coating), for indoor and outdoor Standard colors: white RAL9016, grey RAL7026 only the side panels with louvers, glossy finished				
Safety & EMC	IEC 61851-1, IEC 61851-23, IEC 61851-21-2 class A, IEC 62196-3, 2014/35/UE (CE) IEC 61439-2				
Dimensions LxDxH / weight	mm 807 x 760 x 1850 / 800 Kg approx				
LED	2+1 vertical led strips for charging status and for lighting				
Options	Custom colour combination and logos / CHAdEMO certification / DC energy meters				



The characteristics can be modified by the manufacturer without prior notice - February 2024

