

SEED160

60 TO 160KW MODULAR DC FAST CHARGER

- Small footprint, floor standing
- Configurable single or dual outlet:
CCS2, CHAdeMO
- Optional AC type 2 22KW 32A
- DC power up to 160 kW 350A, 450Apeak
- Voltage range 150-1000Vdc
- Dynamic Power Sharing: 2x80KW or 1x120KW
- **Scalable 60KW, 80KW, 90KW, 120KW and 160KW**
- OCPP integration
- Highly reliable and safe, resistant and anti-vandal
- Low maintenance, low energy consumption
- Easy to install, easy to use
- Compact: only 600x575x1650H
- Italian stylish design
- Customizable for branding

SEED160 is a max 160 KW configurable multi-standard DC charging station CCS combo 2 and/or CHAdeMO

SEED160 supports 500 Vdc and 920 Vdc voltage range, adjusting max current in function of the voltage: 350A CCS (450 peak), max 200A CHAdeMO and 1xAC type 2 32A 22KW plug as an option.

SEED160 can also deliver 2x80KW simultaneously or 1x160KW single charge.

SEED160 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.

SEED160 can be customized with logos and special stylish color combinations: i.e. glossy black and aluminium, champagne and dark grey or orange and aluminum.

Specifications

Plug	DC CCS IEC 62196-3	DC CHAdeMO JEVS G105	(Option) AC Type 2 cable IEC 62196 Mode 3												
Output voltage	150–1000Vdc	150–500Vdc	400 VAC +/- 10%												
Output power and current	<table border="1"> <thead> <tr> <th>KW</th> <th>Adc-out</th> </tr> </thead> <tbody> <tr> <td>60</td> <td>150</td> </tr> <tr> <td>80</td> <td>200</td> </tr> <tr> <td>90</td> <td>250</td> </tr> <tr> <td>120</td> <td>300</td> </tr> <tr> <td>160</td> <td>400</td> </tr> </tbody> </table>	KW	Adc-out	60	150	80	200	90	250	120	300	160	400	60KW 125A 80KW+ 200A	3 x 32 A, 22KW plug
KW	Adc-out														
60	150														
80	200														
90	250														
120	300														
160	400														
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		
	kW	Iac (A)	I inrush (A)
	60	102	120
	80	137	160
	90	154	180
	120	205	240
	160	273	320
Cable types and cable length	2 x CCS2 350A, 5 mt 1 x CCS2 350A, 1 x CHAdeMO 200A, 5 mt (optional) 1 x AC type2 22kW 32A		
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	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 1.6J		
Operating temperature	-25°C to +50°C (derating with Tamb>45°C), 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 B, IEC 62196-3, 2014/35/UE (CE) IEC 61439-2		
Dimensions LxDxH / max weight	mm 607 x 564 x 1650 / 350 Kg approx		
LED	2+1 (3+1 with optional AC) vertical led strips for lighting and charging status		
Options	Custom colour combination and logos / DC energy meter MID or Eichrechtskonform (GCL compliant) / NEX2Vision Management Platform / CHAdeMO certification		

Features are subject to change without prior notice – February 2024

