

SEED160DC

60 to 160KW DC/DC MODULAR FAST CHARGER

- Compact EV fast DC charger for DC microgrids and Battery Energy Storage systems
- Configurable single, dual outlet: CCS1, CCS2, NACS and CHAdeMO
- Input / output voltage: 650 – 825 Vdc (for DC bus) / 150 to 1000Vdc
- **Scalable 60KW, 80KW, 90KW, 120KW and 160KW**
- max 400A, 500A peak dry cables
- OCPP 1.6 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

SEED160DC is a 160 KW configurable multi-standard DC charging station CCS combo 2 and/or CHAdeMO, with DC input.

Max 350A @ 400V CCS and 200A CHAdeMO

The max power is shared between 2 connectors 2 x 80KW simultaneous or only 1 charge 160KW (dynamic and automatic) with max 350A current (450A for 15-20 mins),

Particularly suitable to be connected and powered in a DC microgrid and to a battery energy storage system (BESS)

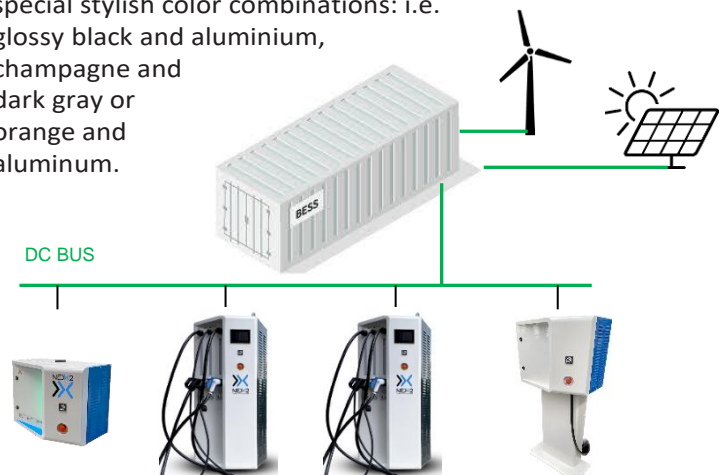
SEED160DC has been designed keeping in mind the needs of the owner of the electric vehicle and those of the operator: safety, ease of use and speed in charging operations; low install cost, reliability, low maintenance,



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.

SEED160DC can be customized with logos and special stylish color combinations: i.e. glossy black and aluminium, champagne and dark gray or orange and aluminium.



Specifications

Plug	DC CCS combo 2 (IEC 62196-3)			
Output power	60 kw = 2x30kW simultaneous or 1x 60kW			
	80 kw = 2x40kW simultaneous or 1x 80kW			
	90 kw = 1x30kW + 1x60 simultaneous or 1x 90kW			
	120 kw = 2x60kW simultaneous or 1x 120kW			
	160 kw = 2x80kW simultaneous or 1x 160kW			
Vdc output voltage	150–1000Vdc			
Input / output current (A)	kW	Adc-in	Adc-inrush	Adc-out
	60	97	114	167
	80	130	152	222
	90	146	171	250
	120	194	228	333
	160	259	304	444
Protection and safety	Input UVP / OVP (OCP fuse), Output OVP (OCP fuse), Output RCP (Reverse Current Protection), Over Temperature			
Efficiency	≥95.5% @ 1000V-30A, ≥95.0% @ 350-500V & 680-1000V, 50%~100% load with rated input			
Cable lengths	CCS1, CCS2, NACS, CHAdeMO, max 400A dry cables (500A peak, max 15-20 mins), 5 mt With 2x cable lateral trays, (optional) 2 x cable retractors with lock, 4 mt max extension			
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			
Energy meter	Output DC class 1 energy meter, comes with calibration certificate, (option, MID or "Eichrechtskonform" DC energy meter)			
Network connection	Ethernet, Wi-Fi, 2G,3G,4G,EDGE,GPRS,GSM,LTE,UMTS - (optional) GPS			
Remote access protocol	OCPP 1.6 Json			
Operating ambient temperature	-25°C to +50°C, derating when Ta>45°C (optional: -35°C to 50°C)			
Storage temperature	-35°C to +70°C			
Rel. Humidity / Altitude	5% to 95% (non-condensing) / 2000 m			
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			
Certifications	IEC 61851-1, IEC 61851-23, IEC 61851-21-2, IEC 62196-3, 2014/35/UE (CE) IEC 61439-2			
Dimensions LxDxH / weight	mm 607 x 570 x 1650 / 350 Kg approx			
LED	2+1 vertical led strips for lighting and charging status			
Options	Custom colour combination, logos and wrapping / CHAdeMO 50Kw 125A or 100Kw 200A 500Vmax DC energy meter MID or Eichrechtskonform certified / cable retractors			

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

