SUNGROW
Clean power for all

Preliminary

CDC120 / 160E
120/160kW DC charger

RELIABLE AND SAFE

- IP55 protection
- Long lifespan over 10 years
- Wide operating temperature range (-30 °C to 55 °C)

USER FRIENDLY

- Support various options for authentication and payment *
- Environmental friendly with extremely low noise ≤ 65dB (A)

FLEXIBLE APPLICATION

- Adaptive voltage range 150-1000 Vdc
- Compatibility with PV-ESS system reserved

EFFICIENT AND SMART

- Max. efficiency up to 96.3%
- 30 / 40kW granularity for dynamic load management
- Maximum output capacity of each port up to 160kW

Technical parameters	CDC120 / 160E
Charging connector	
Connector type	CCS2+CCS2
Number of EV served	2
Cable Length	5 m / 7 m (optional)
Cable management system	Optional**
EVSE-vehicle protocol	DIN SPEC 70121, ISO 15118
DC output	
DC output power	160 kW max. 120 kW max.
DC output voltage	150 Vdc - 1000 Vdc
DC output current	CCS2：Rated 300 A (Boost to 400 A)
AC input	
Grid voltage	3P / N / PE , 323 - 440 Vac
Nominal grid frequency	50 Hz / 60 Hz
Earthing system	TN-C / TN-S / TN-C-S / TT
Rated input current	160 kW : 249 A 120 kW : 187 A
Power factor	≥ 0.99
Total harmonic distortion (THDi)	< 5 % at full output power
Overvoltage category	III
Standby self-consumption	≤ 60 W
Efficiency	
Max. efficiency	96.3 %
Protection	
Overload protection	Yes
Over/under voltage protection	Yes
Over-current protection	Yes
Short-circuit protection	Yes
Leakage current protection	Yes
Over-temperature protection	Yes
Surge protection	Yes
Emergency stop	Yes
User interface	
Display	10.1-inch color touch screen
Language	English (Support customizing other languages)
Authentication	Standard : RFID / QR code / Autocharge Optional : Credit Card / Plug & Charge
Firmware update	OTA by iEnergyCharge
RFID system	ISO / IEC 14443 A / B & ISO / IEC 15693
Energy metering	Support CE meter
Communication interface	Ethernet / 4G / WIFI
Communication protocol (charger-to-CSMS)	OCPP 1.6 J & OCPP 2.0.1 (coming soon)
Mechanical data	
Dimensions (W * H * D)	800 mm * 1790 mm * 450 mm
Weight	≤ 360 kg
Installation method	Floor mounted
AC cable specification	Max. 240 mm^2
Environmental data	
Enclosure rating	IP55
Mechanical impact protection	IK10(HMI is IK08)
Operating ambient temperature range	-30 °C to 55 °C (derating over 50 °C)
Allowable relative humidity range	5 % - 95 % (non-condensing)
Max. operating altitude	≤ 2000 m
Cooling method	Smart forced air cooled
Noise (typical)	≤ 65 dB (A) at 1 m distance / 25 °C , at full output power
Certification and standards	
Certifications	CE, CB, ,RED, SIRIM MCMC, PEA,NBTC,DJID (SDPPI)
Compliance	ETSI / EN 300 328, EN 300 330, EN 301 489-1 / 3 / 17 / 52, ETSI / EN 301 908-1 / 13, EN 50665, BS / EN IEC 61851-1, BS / EN IEC 61851-21-2, BS / IEC EN 61851-23 / 24, EN IEC 62311
Warranty	3 years (standard)

* Payment terminal is an optional feature. Please consult Sungrow for more information

**The CMS only supports a 5-meter cable that doesn't drag on the floor

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