

## CDC 120/160kW Isolated air-cooling fast DC charger

Preliminary

### MAXIMUM SAFETY AND RELIABILITY

- Extreme environmental adaptability: IP55 protection rating, -30°C to 55°C wide temperature operating range, C5 anti-corrosion
- Long lifespan over 10 years
- Millisecond-level fault isolation: 12 layers of security protection (overvoltage/short circuit/insulation monitoring) + dual insulation design
- Active safety protection: BMS deep interaction: Real-time monitoring of battery temperature/voltage, preventing overcharging and overdischarging, extending battery life. Dual safety measures for hardware emergency stop: Physical emergency stop switch + remote command with double confirmation, eliminating the risk of arcing.

### FLEXIBLE APPLICATION

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

### EFFICIENT AND SMART

- Max. efficiency up to 96.5%
- Dynamic load management to optimize EV charging
- Support multiple intelligent charging modes to reduce customers' electricity costs

### USER FRIENDLY

- Supports multiple authentication and payment options , Payment terminal is an optional feature
- Low-noise operation ( $\leq 65$  dBA): Maze-type noise reduction duct + Intelligent temperature-controlled fan
- Charging cable management system for premium user experience
- effortless installation, commissioning and maintenance
- Reliable Energy Delivery 99%



Technical parameters		CDC 120/160kW
<b>Charging connector</b>		
Connector type	CCS2+CCS2 ( Option :CCS2+GBT )	
Number of EV served	2	
Cable Length	5 m ( standard ) / 7 m, 10 m ( optional )	
Cable management system	Yes	
EVSE-vehicle protocol	DIN SPEC 70121 ISO 15118	
<b>DC output</b>		
DC output power	160 kW / 120 kW	
DC output voltage	150 Vdc - 1000 Vdc	
DC output current	CCS2: Rated 300 A, Boost 400 A GBT: Rated 250 A	
<b>AC input</b>		
Grid voltage	3P / N / PE	
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	
<b>Efficiency</b>		
Max. efficiency	96.5%	
<b>Protection</b>		
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	
<b>User interface</b>		
Display	10.1-inch color touch screen	
Language	English ( standard ) Other languages available by firmware upgrade	
Authentication	RFID-card / Plug & play / Auto-charge ( standard ) Plug & charge / credit-card ( optional )	
Firmware update	OTA ( over-the-air ) by iEnergyCharge	
RFID system	ISO / IEC 14443 A / B & ISO / IEC 15693	
Energy metering	CE meter ( standard )	
Communication interface	Ethernet / 4G ( Dual SIM cards ) /WIFI	
Communication protocol ( charger-to-CSMS )	OCPP 1.6J & Ready for OCPP 2.0.1	
<b>Mechanical data</b>		
Dimensions ( W*H*D )	800 mm * 1790 mm * 450 mm	
Weight	≤ 360 kg	
Installation method	Floor mounted	
AC cable specification	Max. 240 mm <sup>2</sup>	
<b>Environmental data</b>		
Enclosure rating	IP55	
Anti-corrosion degree	C5 ( metal shell only )	
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	≤ 2000m	
Cooling method	Smart forced air cooling	



Type designation	CDC 120/160kW
Noise ( typical )	≤ 65 dB ( A )
Certification and standards	
Certifications	CE, CB, AK,RED, RCM, 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 )