

IDC30E

Isolated air-cooling DC charger



RELIABLE AND SAFE

IP65 protection and C5 anti-corrosion
Long lifespan over 10 years
Carefree maintenance without replacing dust filter mat



FLEXIBLE APPLICATION

Adaptive voltage range 200-1000Vdc
Compatibility with PV-ESS system reserved



EFFICIENT AND SMART

Max. efficiency up to 96.5%
Dynamic load management to optimize EV charging



USER FRIENDLY

Support various options for authentication and payment *
Suitable for C&I and residential usage with EMC Class B
Environmental friendly with extremely low noise < 50dB(A)



Technical parameters		IDC30E
Charging connector		
Connector type		CCS2
EVSE-vehicle protocol		DIN SPEC 70121, ISO 15118
Number of EV served		1
Cable length		5 m
DC Output		
DC output power		30 kW
DC output voltage		200 Vdc - 1000 Vdc
DC output current		80 A
AC Input		
Grid voltage		3 / N / PE, 380 Vac / 400 Vac (± 10 %)
Nominal grid frequency		50 Hz / 60 Hz
Grid frequency range		45 Hz - 65 Hz
Earthing system		TN-C, TN-S, TN-C-S, TT
Rated input current		46 A
Max. input current		52 A
Power factor		≥ 0.99
Total harmonic distortion (THDi)		≤ 5 % at full output power
Overvoltage category		III
Efficiency		
Max. efficiency		96.5%
Protection		
Over/under voltage protection		Yes
Over-current protection		Yes
Short-circuit protection		Yes
Over-temperature protection		Yes
Surge protection		Yes
Emergency stop		Yes, integrated
User interface		
Display		7-inch color touch screen
Language		English (default) Other languages available by firmware upgrade
Authentication		RFID-card, Plug & Play, Auto-charge (default) Plug & Charge, Payment terminal (optional)
Firmware update		Over-the-air (OTA) by iEnergyCharge
RFID system		ISO / IEC 14443 A / B, ISO / IEC 15693
Energy metering		MID metering (CE compliant) Eichrecht / PTB compliant (optional)
Communication interface		4G, Ethernet, WLAN
Communication protocol (charger-to-CSMS)		OCPP 1.6 J Ready for OCPP 2.0.1
Mechanical data		
Dimensions (W*H*D)		500 mm * 800 mm * 288 mm
Weight		55 kg
Installation method		Wall-mounting (default) Stand column, trolley (optional)
Mechanical impact protection		IK10 **
Environmental data		
Degree of protection		IP65
Anti-corrosion degree		C5
Operating ambient temperature range		-35 °C to 55 °C
Allowable relative humidity range		5% - 95% (non-condensing)
Max. operating altitude		≤ 2000 m
Cooling method		Smart forced air cooling
Noise (typical)		≤50 dB(A)
EMC		Class B
Certification and standards		
Certifications		CE, CB, UKCA, RCM, ADQCC, MoIAT, PEA, SASO, MEW
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 mechanical impact protection degree of HMI is IK08.