SUNGROW
Clean power for all

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.

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