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)




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| 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 )<br>Other languages available by firmware upgrade |
| Authentication | RFID-card, Plug & Play, Auto-charge ( default )<br>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 )<br>Eichrecht / PTB compliant ( optional ) |
| Communication interface | 4G, Ethernet, WLAN |
| Communication protocol (charger-to-CSMS) | OCPP 1.6 J<br>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 )<br>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,<br>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.