

IDC80E 49.9/60/80kW DC charger



RELIABLE AND SAFE

- IP65 protection and C5 anti-corrosion
- Long lifespan over 10 years
- Enclosure type: high-durability aluminum body
- Carefree maintenance without replacing dust filter mat



FLEXIBLE APPLICATION

- Adaptive voltage range 150-1000 Vdc
- Compatibility with PV-ESS system reserved
- First 80 - 49.9 kW / IP 65 protection / pedestal or wall-mount or trolley on market



USER FRIENDLY

- Supports multiple authentication and payment options *
- Charging cable management system for premium user experience



EFFICIENT AND SMART

- Max. efficiency up to 97 %
- Dynamic load management to optimize EV charging



Available in June

| Technical parameters | IDC80E |
|--|---|
| Charging connector | |
| Connector type | CCS2 + CCS2 |
| Number of EV served | 2 |
| Cable Length | 5 m (standard) with Cable Management System (CMS) 7 m (optional) |
| Cable management system | Yes |
| EVSE-vehicle protocol | DIN SPEC 70121, ISO 15118 |
| DC output | |
| DC output power | 80 kW Max. *1 or 40 kW * 2 60 kW Max. *1 or 30 kW * 2 49.9 kW Max. *1 or 24.95 kW * 2 |
| DC output voltage | 150 Vdc - 1000 Vdc |
| DC output current | 80 kW : CCS2 250 A 60 kW : CCS2 250 A 49.9 kW : CCS2 150 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 | 80 kW : 125 A 60 kW : 94 A 49.9 kW : 78 A |
| Power factor | ≥ 0.99 |
| Total harmonic distortion (THDi) | < 5 % at full output power |
| Overvoltage category | III |
| Standby self-consumption | ≤ 50 W |
| Efficiency | |
| Max. efficiency | 97 % |
| 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 (standard) Other languages available by firmware upgrade |
| Authentication | Standard : RFID / QR code / Auto charge Optional : Credit Card / Plug & Charge |
| Firmware update | OTA by iEnergyCharge |
| RFID system | ISO / IEC 14443 A / B & ISO / IEC 15693 |
| Energy metering | Support CE / MID / PTB 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) | 660 mm * 1050 mm * 390 mm |
| Weight | ≤ 160 kg (without wall-mount , pedestal) |
| Installation method | Pedestal / Wall-mount / Trolley |
| AC cable specification | Max. 95 mm ² |
| Environmental data | |
| Enclosure rating | IP65 |
| Anti-corrosion degree | C5 |
| Mechanical impact protection | IK10 (HMI is IK08) |
| Operating ambient temperature range | -30 °C to 60 °C (Derating over 50 °C) |
| Allowable relative humidity range | 5 % - 95 % (non-condensing) |
| Max. operating altitude | ≤ 2000 m |
| Cooling method | Smart forced air cooling |
| Noise (typical) | ≤ 60 dB (A) at 1 m distance / 25 °C , at full output power |
| Certification and standards | |
| Certifications | CE, CB, RCM, Eichrecht, ADQCC, MoIAT, PEA, SASO, UKCA |
| Compliance | ETSI / EN 300 328, EN 300 330, EN 301 489-1 / 3 / 17 / 52, ETSI / EN 301 908-1 / 13, EN 50665, ETSI / EN 61000-6-2/-4, 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