

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



USER FRIENDLY

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



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



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 200 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 (Support customizing other languages)
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