

## 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
<b>Charging connector</b>	
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
<b>DC output</b>	
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
<b>AC input</b>	
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
<b>Efficiency</b>	
Max. efficiency	97 %
<b>Protection</b>	
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
<b>User interface</b>	
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 )
<b>Mechanical data</b>	
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 <sup>2</sup>
<b>Environmental data</b>	
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
<b>Certification and standards</b>	
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