

IDC180E

DC Fast Charging Station



RELIABLE

- IP65, dust and rain protection
- Service lifetime up to 10 years
- Easy maintenance without any filter

EFFICIENT

- Efficiency up to 96%
- Dynamic power allocation between the outlets
- Innovative cooling system

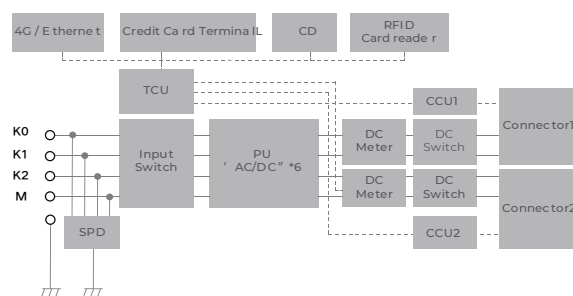
FRIENDLY

- Retractable cable management system
- Barrier-free design for easy access
- Various payment options

FUTURE-PROOFED

- Compatibility with new cars and backends
- Support OCPP 2.0.1 and Plug&Charge ready
- Integration with PV and Energy Storage System

CIRCUIT DIAGRAM



Technical Data	IDC180E
AC Input	
Connector types	3P+N+PE
Input voltage	400 VAC +/- 10 % (50 Hz)
Input current rating	275 A
Max. input current	320 A
Power factor	≥ 0.99
Standby power	≤ 45 W
Gird type	TN-C, TN-S, TN-C-S, TT
THDi (Total harmonic distortion)	< 5 % (at nominal power)
DC Output	
DC output power	180 kW (90 kW / 90 kW; 0 kW / 180 kW)
Number of EV served	2
DC output voltage range	200 Vdc to 920 Vdc
CCS2 cables max. current	Outlet1: CCS2 250 A Outlet2: CCS2 250 A, 400 A (optional)
Energy Metering	MID and Eichrecht compliant meters available as option
Output Cable Length	5 m, 7 m (optional)
Efficiency	96 % Peak
General Data	
Dimensions (H * W * D)	2000 mm * 900 mm * 750 mm (TBD)
Weight	450 KG (TBD)
Cable Retraction System	Yes
Operating temperature range	-35 °C to + 55 °C
Operating Humidity Range	5 % to 95 % (non-condensing)
Operational altitude	≤ 2000 m
Operational noise level	≤ 65 dB(A) at 1m distance @ 25 °C (at full load)
Degree of protection	IP65, IK10 (enclosure), IK08 (screen)
Configuration	
Software update	Over-the-air updates via Sungrow iEnergyCharge APP
multilanguage system	English, Spanish, German, French, Dutch
Warranty	3 years (extended warranty optional)
User Interface	
User authentication	App, RFID, Credit card, Ready for Plug & Charge
User interface	10-inch color touch screen
RFID card system	ISO / IEC 14443A / B, ISO / IEC 15693
Communication interface	2G / 3G / 4G, Ethernet, Bluetooth
Communication protocol	OCPP 1.6J, Ready for 2.0.1
Emergency button	Yes
Protection	
Over/Under voltage protection	Yes
Over current protection	Yes
Over temperature protection	Yes
leakage protection	Yes
Lightning protection	Yes
Short circuit protection	Yes
Overvoltage category	III
Norm and Certification	
Certification	CE, UKCA,RED,EMC Class A
EU Directives	2014/35/EU (Low Voltage Directive), 2011/65/EU (RoHS), 2017/2102 (RoHS2), 2012/19/EU (WEEE), 1907/2006 (REACH Regulation)
Charging and safety standards	IEC 61851-1, IEC 61851-23, IEC 62477-1, IEC 61439-1, IEC TS 61439-7,EN 62311, EN 50364
Eichrecht Certification	DC meters available in accordance with German Law on Weights and Measurements
Communication to EV	DIN70121, ISO15118, IEC61851