IDC30E

Fast DC charger for electric vehicles

NEW

RELIABLE

- IP65 protection and C5 anti-corrosion
- Service lifetime up to 10 years
- Innovative design without additional filter mat to enjoy maintenance free

EFFICIENT

- Max. efficiency up to 96.5%
- Dynamic load management to optimize EV charging
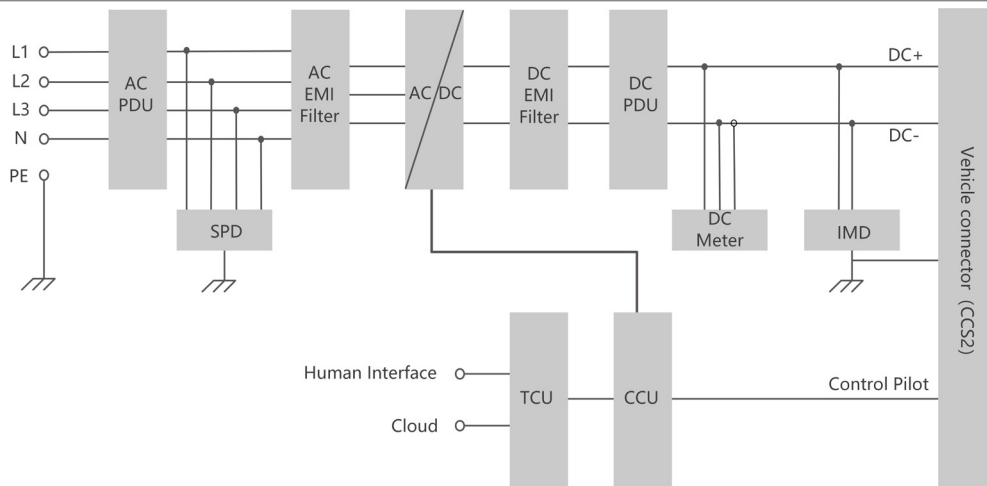- Independent air duct design to achieve efficient cooling

FLEXIBLE APPLICATION

- Adaptive voltage range 200 - 1000 Vdc, compatible with new electric vehicles

USER FRIENDLY

- Support various options for authentication
- Suitable for C&I and residential usage with EMC Class B
- Environmental friendly with extremely low noise < 50 dB(A)

CIRCUIT DIAGRAM

SUNGROW
Clean power for all

Technical parameters	IDC30E
Charging connector	
Connector type	CCS2
EVSE-vehicle protocol	DIN SPEC 70121
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, 400 Vac (± 10 %)
Nominal grid frequency	50 Hz
Grid frequency range	45 Hz - 55 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
Standby self-consumption	≤ 32 W
Efficiency	
Max. efficiency	96.5%
Protection	
Over / under voltage protection	Yes
Over-current protection	Yes
Short-circuit protection	Yes
Leakage current protection	No
Over-temperature protection	Yes
Surge protection	Yes
User interface	
Display	7-inch color touch screen
Language	English (default) Other languages available by firmware upgrade
Authentication	RFID-card, Plug & Play, Auto-charge
Firmware update	Over-the-air (OTA) by iEnergyCharge
RFID system	ISO / IEC 14443 A / B, ISO / IEC 15693
Energy metering	DC metering (CE compliant)
Communication interface	4G, Ethernet, WLAN
Communication protocol (charger-to-CSMS)	OCPP 1.6 J Ready for OCPP 2.0.1
Emergency stop	Yes, integrated
Cable management system	No
Mechanical data	
Dimensions (W*H*D)	500 mm * 800 mm * 242 mm
Weight	53 kg
Installation method	Wall-mounting (default) Stand column, trolley (optional)
Mechanical impact protection	IK10 *
Environmental data	
Degree of protection	IP65
Anti-corrosion degree	C5
Operating ambient temperature range	-35 °C - 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
General data	
Compliance	EN IEC 61851-1, EN 61851-24, IEC 61851-1 / 23 / 24
Warranty	3 years (standard)
Country of manufacture	Made in China

* The mechanical impact protection degree of HMI is IK08.