

AC22E-01

AC charger for electric vehicles



RELIABLE AND SAFE

- Integrated with 6mA DC fault current detection
- IP65 protection suitable for both indoor and outdoor usage



FLEXIBLE APPLICATION

- Maximum charging power 11kW or 22kW configurable
- Capable of OCPP 1.6J communication
- Different charging modes to fit all needs ***



SMART MANAGEMENT

- Beyond charging - maximum solar energy usage together with Sungrow Hybrid Solution*
- Capable of load management and balancing to prevent overload **
- Control and visualization via App



USER FRIENDLY

- Optional with integrated MID-meter to accurately measure electricity usage
- Support various options for authentication
- Time-saving installation by wall-mounting or with stand column options



Technical parameters		AC22E-01
AC Input		
Grid voltage	3 / N / PE, 230 V / 400 V	
Nominal grid frequency	50 Hz / 60 Hz	
Earthing system	TT / TN	
Max. input current	32 A	
Standby self-consumption	< 6.5 W	
AC Output		
Max. charging power	22 kW or 11 kW @ 3-phase connection (configurable) 7.4 kW @ 1-phase connection	
Max. charging voltage	230 V / 400 V	
Max. charging current	32 A / 16 A (configurable)	
Protection & Function		
Integrated fault current detection	DC 6 mA	
Compatibility with external residual-current devices	External RCBO / RCD Type A or Type B and MCB required, in accordance with IEC 62955	
Overload protection	Yes	
Over-temperature protection	Yes	
Surge protection	Yes	
Ground fault monitoring	Yes	
ALM (Adaptive load management)	Yes	
Automatic phase switching	Yes	
User interface		
Display	LED indicator and App	
Authentication	Plug & Play / RFID-card / App	
Firmware update	OTA	
RFID system	Mifare ISO 14443 A	
Energy metering	MID-certified meter (optional)	
Metering accuracy	Class B	
Communication interface	RS485 WLAN / Ethernet / 4G	
Communication protocol (charger-to-CSMS)	OCPP 1.6 J	
Mechanical data		
Dimensions (W*H*D)	214 mm * 346 mm * 125 mm	
Weight	< 6.65 kg	
Installation method	Wall-mounting (default) Stand column (optional)	
AC cable specification	Cross-section up to 5 * 10 mm ²	
Charging cable length	5 m / 7 m (optional)	
Charging connector	Type 2	
Environmental data		
Enclosure rating	IP65	
Mechanical impact protection	IK10	
Operating ambient temperature range	-30 °C - 50 °C	
Allowable relative humidity range	5 % - 95 % (non-condensing)	
Max. operating altitude	3000 m	
Cooling method	Natural convection	
General data		
Certifications	CE, CB, UKCA, RCM, ADQCC, MoIAT, PEA, SASO, MEW	
Compliance	EN 300 328, EN 300 330, EN 301 489-1 / 3 / 17 / 52, EN 301 908-1 / 13, EN 50663, EN 50665, EN IEC 61851-1, EN IEC 61851-21-2, EN IEC 62311, EN 62479	

* Compatible with Sungrow Hybrid Inverter SHRT / SHRS / SHT.

** Additional special Sungrow Smart Energy Meter required.

*** Only available with Sungrow SHRT hybrid inverter in direct connection. For Sungrow SHT hybrid inverter and other Sungrow inverters, the Sungrow iHomeManager is required to be installed.

