SUNGROW
Clean power for all

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 protecion	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 ℃ - 50 ℃
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.

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