

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 (Adaptative 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.

