SUNGROW
Clean power for all

AC22E-G2

AC charger for electric vehicles

RELIABLE AND SAFE

- Certified with EMC Class B protection for safe use in public and residential scenarios
- IP55 protection suitable for both indoor and outdoor usage

FLEXIBLE APPLICATION

- Compatible with 3-phase and 1-phase AC connection
- Capable of OCPP 1.6J communication
- Support various options for network connection

SMART MANAGEMENT

- Capable for load management and balancing to prevent overload
- Control and visualization via App

USER FRIENDLY

- Support various options for authentication
- Time-saving installation by wall-mounting or with stand column options



Technical parameters	AC22E-G2
AC Input	
Grid voltage	3 / N / PE, 230 V / 400 V (± 20 %)
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 @ 22 kW and 7.4 kW outputs 16 A @ 11 kW output
Protection & Function	
Residual current detection	AC 30 mA / 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 (Adaptative load management)	Yes *
User interface	
Display	LED indicator and App
Authentication	Plug & play / RFID-card / iEnergyCharge App
Firmware update	Over-the-air (OTA)
RFID system	Mifare ISO 14443 A
Energy metering	MID-certified meter integrated
Metering accuracy	Class B
Communication interface	RS485 / WLAN / Ethernet / 4G
Communication protocol (charger-to-CSMS)	OCPP 1.6 J Ready for OCPP 2.0.1
Mechanical data	
Dimensions (W*H*D)	239 mm * 387 mm * 150 mm
Weight	< 5 kg
Installation method	Wall-mounting (standard) Stand column (optional)
AC cable specification	Cross-section up to 5 * 10 mm^2
Charging connector	Type-2 socket outlet without shutter (standard) ** Type-2 socket outlet with shutter (optional)
Environmental data	
Enclosure rating	IP55
Mechanical impact protection	IK10
Operating ambient temperature range	-30 ℃ to 50 ℃
Allowable relative humidity range	5 % – 95 % (non-condensing)
Max. operating altitude	3000 m
Cooling method	Natural convection
EMC	Class B
General data	
Certifications	CE, CB, UKCA, RCM, ADQCC, MoIAT, PEA
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

* Additional meter is required to install externally to enable adaptive load management.

** The Type2 charging cable for example with length of 7.5m can be purchased separately. Please contact Sungrow for more information.

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