

AC22E-01 MG

AC charger for electric vehicles

Preliminary



RELIABLE AND SAFE

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



SMART MANAGEMENT

- Automatic phase-switching to optimize solar surplus
- Capable for load management and balancing to prevent overload *
- Beyond charging – maximum usage of solar energy together with Sungrow Hybrid Inverter **



FLEXIBLE APPLICATION

- Applicable for OCPP communication
- Different charging modes to fit all needs ***
- Adaptable access control with RFID-Cards
- Control and visualization via App



USER FRIENDLY

- Fast installation with Poka-Yoke connector
- Integrated with MID meter

Technical Data	AC22E-01 MG
AC Input	
Nominal grid voltage	3 / N / PE, 230 V / 400 V
Grid voltage range	184 V - 276 V
Nominal grid frequency	50 Hz / 60 Hz
Grid frequency range	47 Hz – 63 Hz
AC Output	
Nominal charging power	22 kW
Max. charging current	32 A
Charging current range	6 A - 32 A
Nominal charging voltage	230 V / 400 V
Protection & Function	
Integrated DC fault current detection	Yes, 6 mA
Overload protection	Yes
Over-temperature protection	Yes
Flame retardant protection	Yes
Surge protection	AC Type II
Mechanical impact protection	IK10
Ground fault monitoring	Yes
Grounding system	TT / TN
Metering	Yes, integrated with MID meter
ALM (Adaptive load management)	Yes
Automatic phase switching	Yes
User interface & Communication	
Display	LED indicator and App
Authentication	Plug & Play / RFID-card / iSolarCloud App / iEnergy Charge App
Charging mode	Eco charging / Fast Charging / Time charging / Customized charging
Communication interface	RS485 (to inverter / meter) WLAN / Ethernet / 4G (to cloud)
Communication protocol	OCPP 1.6 J
General data	
Dimensions (W * H * D)	214 mm * 346 mm * 125 mm
Weight	6.65 kg
Installation method	Wall-mounting or Pole-mounting *
Degree of protection	IP65
Operating temperature range	-30 °C - 50 °C
Relative humidity	5 % - 95 % (non-condensing)
Cooling method	Natural convection
Max. operating altitude	3000 m
AC cable specification	Cross-section 6 mm ² * 5
Charging connector	Type 2
Charging cable length	7 m
Standby self-consumption	< 6.5 W
Warranty	3 years (standard)
Compliance	IEC 61851-1/22, IEC 62196-1, IEC 62955, IEC 60068-2

* Additional smart meter required

** Compatible with Sungrow hybrid inverter SHRT / SHRT-20

*** Only available with Sungrow hybrid inverter in iSolarCloud