SUNGROW
Clean power for all

Preliminary

AC44E-D

AC charger for electric vehicles
Public street charging

Flexible Installation

- Daisy-chain architecture supports up to 6 charging sockets with a single grid connection
- Compatible with both copper and aluminum power cables
- Optional precast foundation for faster deployment*

Reliable And Secure

- IP55-rated and C5 corrosion-resistant for harsh environments
- Built-in PEN fault detection, integrated 6 mA DC / 30 mA AC leakage detection, and Type A RCBO protection
- Compliant with CRA, EN 303 645 and EN 18031 cybersecurity requirements

Future-Proof Charging

- ISO 15118 - ready for seamless user experience and future Plug & Charge
- Dynamic Load Management to maximise grid capacity use
- 10-inch HMI and MID metering for intuitive and transparent charging

PV-ESS Integration

- Beyond charging - maximum energy utilization with Sungrow C&I Solution*
- AI-driven management to lower operating costs*



Technical parameters	AC44E-D
AC Input	
Grid voltage	Three Phase: 3 / N / PE, 400（± 20 %）
Nominal grid frequency	50 / 60 Hz
Earthing system	TT / TN / IT
Max. input current	64A singel charger and max.96A daisy chain connection
Standby self-consumption	25 W
Daisy Chain Connection	Support 6 * Sockets and total output power 66 kW. One master charger connected to the grid and other two slave chargers connected in Daisy Chain connection
AC Output	
Max. charging power	11 / 22 kW
Max. charging voltage	400 Vac
Max. charging current	16 A / 32 A
Protection & Function	
Integrated DC fault current detection	Yes, 6mA
Integarted AC fault current detection	Yes, 30mA
Overload protecion	Yes, equipped with RCBO typeA
Over-temperature protection	Yes
Flame retardant protection	Yes
PEN protection	Yes
Ground fault monitoring	Yes
ALM (Adaptive load management)	Yes
Automatic phase switching	Yes
User interface	
Authentication	Plug & play, RFID-card, QRcode, AutoCharge, Supported to integrade POS to support NFC contactless payment. PnC upgradable.
Firmware update	OTA by iEnergyCharge
RFID system	ISO / IEC 14443 A / B & ISO / IEC 15693
Energy metering	Support MID / PTB meter
Metering accuracy	ClassB
Charging mode	OCPP or Plug & play or Upgradable to EMS by iEnergyCharge
Communication interface	RS485, WLAN, Ethernet, 4G, Wifi, Bluetooth
Communication protocol (charger-to-CSMS)	OCPP 1.6 J, OCPP 2.0.1 and OCPP2.1 V2G function upgradable, ISO15118（hardware ready*） V2G（hardware ready*）
Mechanical data	
Dimensions (W*H*D)	450 mm * 1500 mm * 220 mm
Weight	45 kg
Installation method	Standalone
AC cable specification	Cu 5 * 25mm^2 or Al 5 * 50mm^2
Charging connector	2 * Socket type2
Environmental data	
Enclosure rating	IP55
Anti-corrosion degree	C5
Mechanical impact protection	IK10（HMI is IK08）
Operating ambient temperature range	-25 ℃ to 55 ℃ (derating over 45 ℃)
Allowable relative humidity range	5 % - 95 % (non-condensing)
Max. operating altitude	3000m
Cooling method	Natural convection
EMC	ClassB
General data	
Compliance	CE CB MID UKCA OCA***

*Custom precast base solutions available on demand

**AI Mode works with Sungrow system solutions, supports commercial & industrial solar-storage-charging and integrates Logger1000 functions

***the OCA certification is planned and update the certification accordingly

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