SUNGROW
Clean power for all

EMS300CP

The EMS300CP is designed for a wide range of commercial and industrial application scenarios, with diverse control strategies and high-precision algorithms. It not only provides an efficient operation and maintenance (O&M) solution for each customer, but also offers the best customized service solutions, thereby additionally enhancing the revenue from energy storage system.

EFFICIENT O&M

- Combination of various WEB/APP O&M options
- Allow local/cloud O&M to ensure stable device operation
- Support one-click update of devices in the whole plant

SAFE AND RELIABLE

- Support ESS SOC balancing control
- Support data transmission encryption between EMS300CP and iSolarCloud
- Support real-time device fault and alarm

Type designation	EMS300CP
System	
Controller functions	Time of use power, Zero export, Demand charge control, Main transformer overload protection, Dynamic capacity expansion, P/Q/PF control, SOC intelligent management, collaborative control of PV&ESS&EVC
iSolarCloud functions	Real-time monitoring, Remote upgrade, Remote smart O&M
Certification	CE
Communication	
RS485 interface	7
Ethernet port	5 * 10 / 100 Mbps
DI / DO	16 / 4
Communication protocol	IEC60870-5-104, Modbus TCP
Power supply	
DC input	24 Vdc (±10 %)
Power consumption	< 20 W
Ambient conditions	
Operating temperature	-30 ℃ - 60 ℃
Storage temperature	-40 ℃ - 70 ℃
Operating humidity	0 % - 95 % (non-condensing)
Operating altitude	≤ 4000 m
IP level	IP20
Mechanical parameters	
Dimensions (W*H*D)	440 mm * 44 mm * 224 mm
Weight	3 kg
Mounting method	Panel Mount or Rack Mount
Cable specification	AC power cable: It is recommended that the cable has a diameter of 1.5 mm² and runs a distance of less than 10 m RS485 cable: 0.75 mm² - 1.5 mm² outdoor-type anti-UV twisted-pair cable with a shielding layer and a maximum length of less than 1000 m (baud rate 9600)