

Technical parameters		EMS300CP
System		
Controller functions	Self-consumption, Time plan, Feed in limitation, Peak shaving, Virtual meter, Overload protection, Dynamic capacity expansion, P/Q/PF control, SOC intelligent management, Emergency power backup□collaborative control of PV&ESS&EVC, Coordinated Control of DG and ESS	
iSolarCloud functions	Real-time monitoring, Remote upgrade, Remote O&M, API	
Certification	CE / IEC62443-4-2 / EN18031	
Communication		
RS485 interface	7	
Ethernet port	2 * 10 / 100 Mbps	
Communication protocol	IEC 60870-5-104, Modbus RTU / TCP	
IO		
DI / DO	16 / 4	
AI	4 (1 * AI: 0 VDC ~ 10 VDC, 3 * AI: 4 mA ~ 20 mA)	
Power supply		
AC input	100 VAC ~ 264 VAC, 50 Hz / 60 Hz	
DC input	24 VDC (±10 %)	
Ambient conditions		
Operating temperature	-30 °C ~ 60 °C	
Storage temperature	-40 °C ~ 70 °C	
Operating humidity	0 % ~ 95 % (non-condensing)	
Operating altitude	≤ 4000 m	
Ingress protection	IP20	
Mechanical parameters		
Dimensions (W*H*D)	440 mm * 44 mm * 224 mm	
Weight	3 kg	
Cable specification	Power Cable: 1.0 mm ² , ≤ 10 m RS485 Cable: 0.75 mm ² ~ 1.5 mm ² outdoor-type, anti-UV, twisted-pair cable, with a shielding layer and ≤ 1000 m (@baud rate 9600)	

