

SPPC2000-MGCC

Smart Microgrid Controller



**POC PT/CT
direct Sampling**



**Multi-time scale
frequency & voltage
control**



**High reliability of
power supply**



**PV & BESS & DG
economic scheduling**

Technical Specifications

Model	SPPC2000-MGCC A01		SPPC2000-MGCC A02	
Device Management				
Networking Mode	Active/Standby and Master-Slave Control Mode			
Features				
Seamless planned on/off-grid switching	0ms			
Seamless unplanned on/off-grid switching	No more than 200 ms			
Multi-time-scale frequency and voltage control	Response delay < 10 ms			
Waveform Recording Function	Supports Instantaneous Value (0.5ms) and rms Value Recording of Current and Voltage			
Time Synchronization Function	Supports IRIGB (≤ 1 ms) and Other Time Synchronization Protocols (e.g., NTP)			
Circuit Breaker Status Acquisition and Control	Yes			
Simulation Model	PSSE, DigSILENT, PSCAD			
PT/CT Sampling current	1A	5A		
Coordinated control	Supports black start, PV&BESS&DG economic scheduling , anti-counterflow control, demand control, TOU			
Communication interaction				
Ethernet	6 + 2			
Optical Ethernet	SFP x 2, 100 / 1,000 Mbps			
RS485	COM x 4			
Current/Voltage Sampling	6U + 6I			
CAN	2			
Communication protocol	Modbus-TCP, IEC60870-5-104, GOOSE			
Interaction				
WEB	support			
HMI	Smart Plant Management System			
General Parameters				
Dual power supply	AC: 90 V~264 V, 47 Hz ~ 63 Hz DC: 110 V ± 10%, 220 V ± 10%	Weight	≤ 80 kg (Without Pallet and Optional Components)	
Rated AC power	90W	Dimensions (H/L/W)	1000 x 650 x 650 mm (Within Base 100mm)	
Rated DC power	60 W (Excluding Network Switches)	Operating Temperature Range	-25°C ~ 60°C	
Rated AC Input Frequency	50Hz/60Hz	Relative Humidity	0% ~ 100% (Non-condensing)	
DC/AC Surge Arrester	Type II	Maximum operating altitude	4,000 m	
Current Sampling Precision	0.2%	Protection grade	IP55	
Voltage Sampling Precision	0.2%	Anticorrosion grade	C5-Medium	
Power Precision	0.5%	Installation mode	Floor Mounting / Wall Mounting	