

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	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 and rms Value Recording of Current and Voltage	
Time Synchronization Function	Supports IRIGB (≤ 1 ms) and Other Time Synchronization Protocols (e.g., NTP)	
Auxiliary AGC/AVC adjustment control	Yes	
Circuit Breaker Status Acquisition and Control	Yes	
Simulation Model	PSSE, DigSILENT, PSCAD	
Smart reactive power compensation	System-level 30ms-40ms dynamic reactive response	
PT/CT Sampling current	1A	5A
Coordinated control	Supports black start, PV&BESS&DG economic scheduling , anti-counterflow control, demand control, TOU	
Communication Interface		
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	Yes	
HMI	Smart PV Management System Smart Energy Management System	
General		
Dual Power Supply	AC: 90 V~264 V, 47 Hz ~ 63 Hz, DC: 110 V ± 10%, 220 V ± 10%	
DC/AC Surge Arrester	Type II	
Dimensions (H x L x W)	1000 x 650 x 650 mm (Without Base)	
Weight	≤ 80 kg (Without Pallet and Optional Components)	
Operating Temperature Range	-25°C ~ 60°C	
Relative Humidity	0% ~ 100% (Non-condensing)	
Max. Operating Altitude	4,000 m	
Protection Degree	IP55	
Anti-corrosion Protection	C5-Medium	
Installation Options	Floor Mounting, Wall Mounting (Optional)	