

SPPC2000

Smart Power Plant Controller



**POC PT/CT Direct
Sampling**



PV&ESS Synergy



Fast Power Response



**Power Oscillation
Damping**

Model	SPPC2000-A01		SPPC2000-A02
Device Management			
Networking Mode	Active/Standby and Master-Slave Control Mode		
Features			
Smart Reactive Power Compensation	System-level 30ms-40ms Dynamic Reactive Power Response		
Low frequency oscillation suppression	0.1~2.5 Hz		
Waveform Recording Function	Current/Voltage Instantaneous Value Recording, Rms Long-term Recording		
Time Synchronization Function	IRIGB (≤ 1 ms) and Other Time Synchronization Protocols (e.g., NTP)		
Breaker Status Acquisition and Control	Yes		
Simulation Model	PSSE, DigSILENT, PSCAD		
PT/CT Sampling current	1A	5A	
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	SPMS2000 / SmarPVMS(Plant)		
General			
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 DC Power	60 W (Excluding Network Switches)	Dimensions (H x L x W)	1000 x 650 x 650 mm (Within Base 100mm)
Rated AC Power	90W	Operating Temperature Range	-25℃ ~ 60℃
Rated AC Input Frequency	50Hz/60Hz	Relative Humidity	0% ~ 100% (Non-condensing)
DC/AC Surge Arrester	Type II	Max. Operating Altitude	4,000 m
Current Sampling Precision	0.2%	Protection Degree	IP55
Voltage Sampling Precision	0.2%	Anti-corrosion Protection	C5-Medium
Power Precision	0.5%	Installation Options	Floor Mounting / Wall Mounting