

# ► SPPC2000

## Smart Power Plant Controller



POC PT/CT  
Direct Sampling



PV&ESS  
Synergy



Fast Active/Reactive  
Power Response



Power Oscillation  
Damping

### Technical Specifications

Model	SPPC2000-A01	SPPC2000-A02
<b>Device Management</b>		
Networking Mode	Active/Standby and Master-Slave Control Mode	
<b>Features</b>		
Active Power Control	System-level 30ms-40ms Dynamic Reactive Power Response	
Frequency Control (P-F)	P-F Curve Control	
Reactive Power Control (Q or PF)	Reactive Power Control with Dynamic or Fixed Q/PF Setpoints	
Voltage Control (Q-U)	Q-U Curve Control	
Smart Reactive Power Compensation	System Level Dynamic Reactive Power Response Based on Inverter/Converter	
Ramp Control (Active and Reactive Power)	Control the Active/Reactive Power Up and Down Ramp Rates	
Cooperative Control of PV and ESS	Yes	
Power Oscillation Damping (POD)	Oscillation Suppression Range (0.1~2.5 Hz)	
Waveform Recording Function	Supports Instantaneous Value (0.5ms) and rms Value Recording of Current and Voltage	
Time Synchronization Function	Supports IRIGB ( $\leq 1$ ms) and Other Time Synchronization Protocols (e.g., NTP)	
Circuit Breaker Status Acquisition and Control	Control Substations Disconnection and Connection	
Simulation Model	PSSE, DigSILENT, PSCAD	
PT/CT Sampling current	1A	5A
<b>Communication Interface</b>		
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	
<b>Interaction</b>		
WEB	Yes	
HMI	Smart PV Management System Smart Energy Management System	
<b>General</b>		
Dual Power Supply	AC: 90 V~264 V, 47 Hz ~ 63 Hz, DC: 110 V $\pm$ 10%, 220 V $\pm$ 10%	
DC/AC Surge Arrester	Type II	
Dimensions (H x L x W)	1000 x 650 x 650 mm (Without Base)	
Weight	$\leq 80$ 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	
Anticorrosion Protection	C5-Medium	
Installation Options	Floor Mounting, Wall Mounting (Optional)	

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