

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	

SPMS2000

Smart Plant Management System



Comprehensive management

GW-level PV&ESS plant management
Multi-level refined management



Efficient collaboration

Power generation plan curve
Multi-energy scheduling



Intelligent diagnosis

Full-link multi-dimensional plant diagnosis
Cell/module fault pre-warning



Secure and reliable

IEC62443 certification.
Redundant design, high availability

*The product is without workstation devices

➤ Specifications

Parameter Type	Parameter Description		
Cabinet			
W x D x H	600mm×1200mm×2200mm (47u)	Weight	Net weight approx. 210 kg, full configuration approx. 600 kg
Temperature	5 - 30°C	Power Supply	200V~240V, 50/60Hz
Protection Grade	IP20	Certification	CB/CE, etc.
Altitude	≤4000m		
Server			
Model	TaiShan 200 (2280)	Hard Disk	8*1.92T SATA SSD
W x D x H	482.6mm*790mm*88.9mm. (2U)	Fans	Four hot-swappable fans in N+1 redundancy
CPU	2*Kunpeng 920 - 48core @2.6GHz	External Interface	8*GE
Database	GaussDB	Power supply	2 x 900 W, 1+1 Redundancy
Operating system	EulerOS	Net weight	Approx. 30 kg
Memory	4*64G	Certification	CCC/CE, etc.
Switch			
Model	CloudEngine S5735-S24ST4XE-V2		CloudEngine S5735-S24T4XE-V2
W x D x H	420mm*442mm*43.6mm (1U)		420mm*442mm*43.6mm (1U)
Net Weight	4.95 kg		4.34 kg
Memory	2 GB		2 GB
Power Supply	2*80W		2 x 80 W, 1+1 redundancy
Interface	Eight gigabit electrical ports, four 10GE optical ports, and 24 gigabit optical ports		24 GE electrical ports and 4 10GE optical ports
Rated Voltage	100V AC~240V AC; 50/60Hz		100V AC~240V AC; 50/60Hz
Certification	CE/VCCI, etc.		CCC/CE/RoHS, etc.