SPPC2000
Smart Power Plant Controller





POC PT/CT Direct Sampling

PV&ESS Synergy

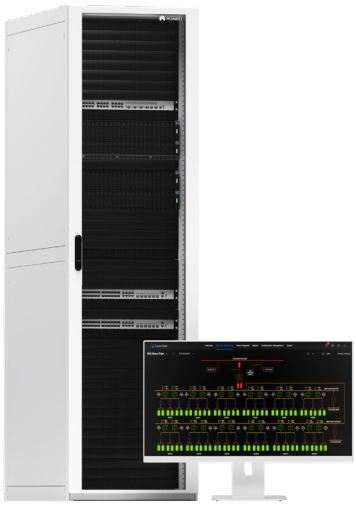
Fast Power Response

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



*The product is without workstation devices

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

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.