

# ► Smart PV Plant Management System



Refined Management



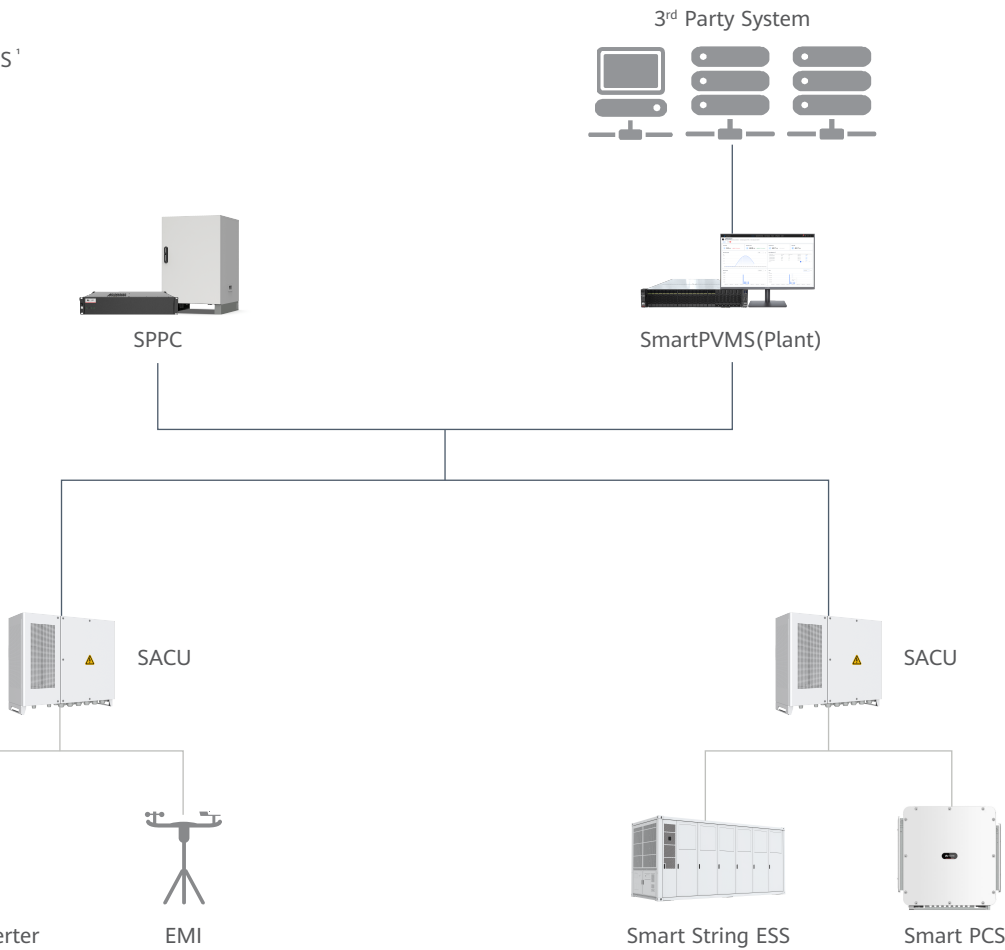
Efficient O&M



Compatible with 3<sup>rd</sup> party system

## Network

- Ethernet
- RS485 or MBUS<sup>1</sup>



1 - Compatible with communication mode of PLC (Power Line Communication).

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## Main Functions

Function		Description
Refined management	Plant Overview	Provide an overview of the key information of the PV & ESS plant.
	Multi-level Refined Management	Provide multi-level fine management of plants, arrays, equipment, and components (strings, batteries)...
	Alarm Management	Alarms can be filtered, graded, and redefined; One-click direct access to the alarm center from any interface throughout the system.
	Remote Device Upgrade	Batch device upgrade through SmartPVMS(Plant) without going on-site.
Efficient O&M	Plant Diagnosis	Comprehensively evaluates plant performance and alarms, and analyze the loss.
	Power Normalization	Intelligently analyze plant and array operation efficiency and identify inefficient arrays.
	Discreteness Analysis	Inverter/string discreteness and deviation rate analysis, identifying inefficient strings; linked to Smart IV Curve Diagnosis automatically for further inspection.
	Smart IV Curve Diagnosis	Realize string-level fault localization, provide diagnosis report, O&M report, revenue estimation report, etc.
	Smart Tracker Control Algorithm (SDS)	Intelligent adjustment of the angle of the tracker to reduce shading and improve power generation efficiency
Open Eco-system		Data can transfer via northbound IEC104 and Restful API.

## Server Parameters

Item	Standard Version	Premium Version
Model	TaiShan200 2280	TaiShan200 2280
Form Factor	2U rack server	2U rack server
CPU	2*Kunpeng 920-48core@2.6GHz	2xKunpeng 920-48core@2.6GHz
Memory	2*32GB	4*32GB
Internal Storage	2*1920GB	18*1920GB
Operating System	Euler OS	Euler OS
Database	Gauss DB	Gauss DB
Network Ports	8*GE	8*GE
Power Supply	22 hot-swappable PSUs, 1+1 redundancy	2 hot-swappable PSUs, 1+1 redundancy
Voltage	110/220 Vac	
Fan Modules	4 hot-swappable fan modules, N+1 redundancy	4 hot-swappable fan modules, N+1 redundancy
Operating Temperature	5°C ~ 40°C	5°C ~ 40°C
Dimensions (H x W x D)	86.1 x 447 x 790 mm	86.1 x 447 x 790 mm
Weight	27 kg	28 kg
Certification	CCC CQC RCM VCCI FCC&IC-SDoC CE-SDoC CB+NRTL, etc.	CCC CQC RCM VCCI FCC&IC-SDoC CE-SDoC CB+NRTL, etc.