

# Smart PV Plant Management System



*\* The product is without display workstation device.*



**Refined**



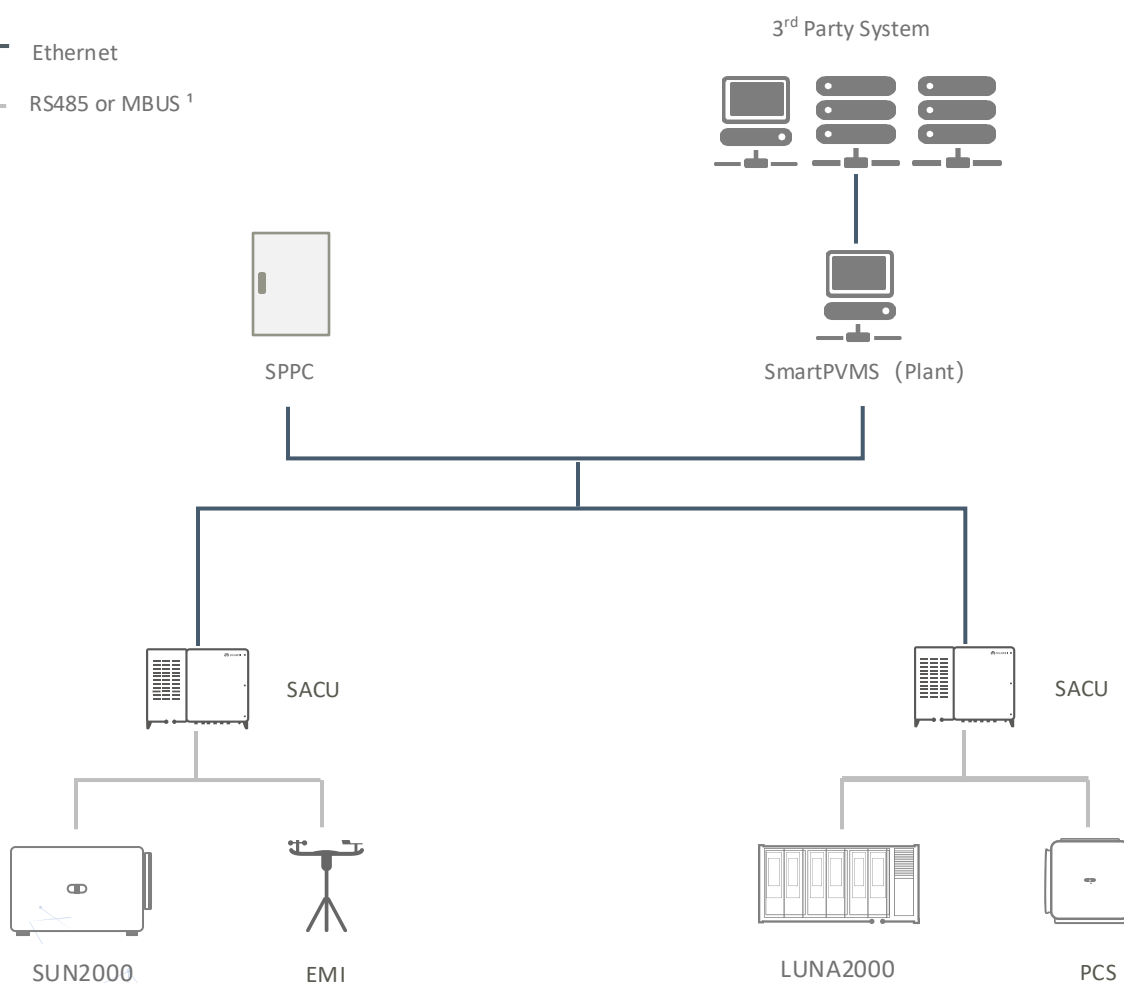
**Efficient**



**Open**

## Network

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



<sup>1</sup> - Compatible with communication mode of PLC (Power Line Communication).

# Smart PV Plant Management System

## ➤ Main Functions

Function	Description
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)...
ESS 3D View	Digital twins of ESS devices to enable status visualization; Faulty parts are colored red to enable efficient fault localization.
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
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.
Remote Device Log Export	Save time in locating faults by exporting equipment logs through SmartPVMS(Plant) without going on-site.
Open Eco-system	Data can transfer via northbound IEC104 and Restful API.

\* It is value-added features, need to purchase License

## ➤ 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*64GB	4*64GB
Internal Storage	2*1920GB	18*1920GB
Operating System	EulerOS	EulerOS
Database	Gauss DB	Gauss DB
Network Ports	8*GE	8*GE
Power Supply	2 hot-swappable PSUs, 1+1 redundancy	2 hot-swappable PSUs, 1+1 redundancy
Voltage	110/220 Vac	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.