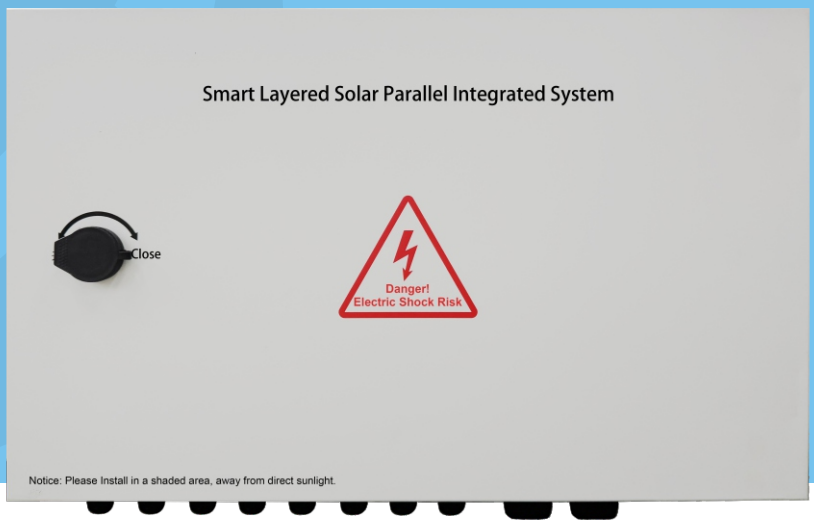
IPANDEE
爱庞德

Smart Layered Solar Parallel Integrated System



Product Introduction

- For photovoltaic layered solar power generation systems, a DC combiner unit is generally required between the PV modules and the load side to facilitate maintenance, improve system reliability, and enhance operational convenience.
  This series of products is specially designed to meet these requirements, providing an integrated solution for photovoltaic power generation systems.

Product Features

▪ **Safe and Reliable:**

- High communication reliability and strong anti-interference capability;
- Comprehensive protection and alarm functions to reduce equipment failure rates;
- IP66 protection rating, minimizing the impact of environmental factors.

▪ **High-Efficiency Conversion:**

- High integration with low conversion loss and low self-consumption;
- Supports optional 8-channel or 16-channel inputs with flexible configuration;
- MPPT tracking efficiency ≥99%; Conversion efficiency up to 98%.

▪ **Convenient Operation and Maintenance:**

- Supports external display interface;
- Modular design for easy and fast maintenance;
- No complex networking required, maintenance-free commissioning;
- Integrated design of combiner box and adapter for simple installation.

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CAM08DJ0700 Smart Layered Solar Parallel Integrated System	
Product Category	
Integrated System Controller	The input side features Maximum Power Point Tracking (MPPT) technology, while the output side provides system voltage tracking and voltage stabilization functions.
System Peak Conversion Efficiency	≥98.2%
Single MPPT Efficiency	≥99.5%
System Standby Power Consumption	≤3W
Input Parameters	
Maximum Input Power	6KW（750W*8 channels）
Number of MPPT Inputs: 8channels	8 channels
Maximum Input Power per MPPT	750W
Maximum Input Current per MPPT	17A
MPPT Input Voltage Range	10-60V
MPPT Operating Voltage Range	20-60V
Input Overvoltage Protection Voltage	60±0.5V adjustable
Input Overvoltage Recovery Voltage	57±0.5V adjustable
Input Undervoltage Protection Voltage	20±0.5V adjustable
Input Undervoltage Protection Voltage	25±0.5V adjustable
Output Parameters	
Rated Output Power	5.6KW（700W*8 channels）
Maximum Output Power	6KW（750W*8 channels）
Maximum Output Current	120A
DC Output Voltage Range	40-60V adjustable
Rated Output Voltage	56V（default factory setting） adjustable
Display & Communication & Monitoring	
LED Status Display	8 yellow-green indicators:Normal operation: 0.5s flashing (MPPT)
Communication Interface	Rs485 bus / Standard Modbus × 2 groups
Parameter Configuration Methods	Local DIP switch Display meter Bluetooth APP PC upper computer software Wireless remote monitoring platform
Monitoring Methods	PC monitoring, 4G remote monitoring, Ethernet remote monitoring
Protection Functions	
PV Input Protection	PV input overvoltage protection, Reverse polarity protection Surge and lightning protection
System Protection	Battery disconnection protection, Battery overcharge protection, Output overvoltage and undervoltage protection System surge and lightning protection
General Protection	Over-temperature protection, Over-temperature derating operation, System overcurrent protection
Other Parameters	
Installation Method	Wall-mounted / Bracket-mounted
Dimensions (H × W × D)	320*520*125MM
Weight（kg）	About 9KG
Operating Temperature	-40℃~+60℃
Storage Temperature	-40℃~+70℃
Protection Rating	IP66
Altitude	≤4000m(Above 3000m, reduce the operating temperature by 1 C for every additional 100m altitude.)