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Areswatt New Energy

AW-PVSS-1

AW-PVCU-1
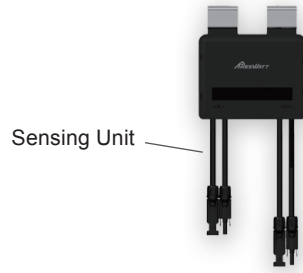
Sensing Unit

Control Unit

AW-PVSS-1

AW-PVCU-1

Smart Photovoltaic Rapid Shutdown Module

Product features

Precise Monitoring

Real-time monitoring of key electrical parameters including voltage, current, power, and temperature of photovoltaic modules, providing accurate data support for system operation status and enabling users to comprehensively understand the performance of their photovoltaic system.

Safety Protection

Equipped with multiple shutdown methods, including local manual shutdown and remote control shutdown, with response time ≤30 seconds. In emergency situations, it can quickly reduce module DC voltage to safe levels, effectively ensuring the safety of equipment and personnel.

Fault Early Warning

Features real-time arc fault detection capability that promptly identifies potential fire hazards on the DC side and issues warning notifications through the management platform and mobile APP, significantly enhancing the safety and reliability of photovoltaic systems.

Easy Connectivity

Utilizes HPLC (High-Performance Power Line Communication) technology to enable communication between internal components without additional wiring, while also supporting RS485 and 4G remote communication, ensuring stable and reliable data transmission while greatly simplifying installation procedures and maintenance costs.

Intelligent Management

Through the online management platform and mobile APP, users can implement remote monitoring, data analysis, remote operation, and system upgrades, providing convenient query analysis, abnormal data processing, and remote control capabilities.

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Technical Parameters

Model	AW-PVSS-1	AW-PVCU-1
Input Parameters		
Voltage Range	12-60V	AC:110Vac~260Vac
Maximum Input Current	15A	/
Maximum Short-Circuit Current	20A	/
Rated Input Power	600W	/
Output Parameters		
Voltage Range	12-60V	/
Maximum System Voltage	1500Vdc	/
Maximum Output Current	15A	/
Structural Parameters		
Dimensions (WDH)	108x105x22mm	163×90×70mm
Protection Level	IP68	IP54
Environmental Parameters		
Temperature Range	-40°C ~ +85°C	-25°C ~ +65°C
Relative Humidity	<85%	
Other Parameters		
Communication Protocol	HPLC	Uplink:1 RS485 port, 4G Downlink: HPLC
User Interface	WEB+APP	
Rapid Shutdown Time	≤30s	
Certification		
Safety	NEC 2017&2020(690.12), UL 1741, UL 3741, IEC 62109-1	
EMC	FCC Part15, IEC/EN 61000-6-1/-2/-3/-4	

Technical Support

For more information about operating environment, technical parameters and customized solutions, please consult our technical specialists.

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