



## Areswatt New Energy

### 60V Series

AW-PVRS60-A1

AW-PVRS60-B1

AW-PVRS60-C1

### 120V Series

AW-PVRS120-A2

AW-PVRS120-B2

AW-PVRS120-C2



Rapid Shutdown Device



Shutdown Controller

# Smart Photovoltaic Rapid Shutdown System

## Product features



### Safety Protection

Equipped with multiple safety protection mechanisms and an IP68 protection rating, enabling stable operation in harsh environments. The product has passed multiple international safety certifications including ABNT NBR, NEC, UL, and IEC, ensuring system operational reliability and safety.



### Fault Early Warning

Features an intelligent fault diagnosis capability that can promptly detect potential issues in photovoltaic components and issue warning signals. Rapid shutdown response time is less than 30 seconds, enabling quick circuit disconnection in emergencies to protect personnel and equipment safety.



### Easy Connectivity

Adopts modular design, supporting two voltage series of 12-60V and 12-120V to meet the requirements of photovoltaic systems with different power levels. Compact structure with easy installation, reducing construction complexity and maintenance costs.



### Intelligent Control

Intelligent control unit with remote shutdown control capability. Operating temperature range from  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ , adapting to various climatic environments. It supports the HPLC communication protocol to ensure the stability and reliability of the product's functions.



| Model                         | PVRS60-A1                                                                 | PVRS60-B1 | PVRS60-C1 | PVRS120-A2 | PVRS120-B2 | PVRS120-C2 |
|-------------------------------|---------------------------------------------------------------------------|-----------|-----------|------------|------------|------------|
| Input Parameters              |                                                                           |           |           |            |            |            |
| Voltage Range                 | 12-60V                                                                    |           |           | 12-120V    |            |            |
| Maximum Input Current         | 15A                                                                       | 20A       | 25A       | 15A        | 20A        | 25A        |
| PV Input Module Quantity      | 1                                                                         |           |           | 2          |            |            |
| Maximum Short-Circuit Current | 30A                                                                       |           |           |            |            |            |
| Output Parameters             |                                                                           |           |           |            |            |            |
| Voltage Range                 | 12-60V                                                                    |           |           | 12-120V    |            |            |
| Maximum System Voltage        | 1000/1500Vdc                                                              |           |           |            |            |            |
| Maximum Output Current        | 15A                                                                       | 20A       | 25A       | 15A        | 20A        | 25A        |
| Structural Parameters         |                                                                           |           |           |            |            |            |
| Dimensions (WDH)              | 108x108x26mm                                                              |           |           |            |            |            |
| Protection Level              | IP68                                                                      |           |           |            |            |            |
| Environmental Parameters      |                                                                           |           |           |            |            |            |
| Temperature Range             | -40℃ ~ +85℃                                                               |           |           |            |            |            |
| Relative Humidity             | <85%                                                                      |           |           |            |            |            |
| Other Parameters              |                                                                           |           |           |            |            |            |
| Communication Protocol        | HPLC                                                                      |           |           |            |            |            |
| Rapid Shutdown Time           | <30s                                                                      |           |           |            |            |            |
| Certification                 |                                                                           |           |           |            |            |            |
| Safety                        | ABNT NBR 17193:2025, 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.