

# Smart Rapid Shutdown Device



### Rapid And Safe Shutdown

Reduce the DC high voltage of the PV module array to below safe voltage within **15s\***.



### Self-Developed ASIC

Define the Smart Rapid Shutdown Device at the chip level.



### Module Operation Status Monitor

Real-time monitor the operational status of PV modules.



### Accurate Fault Location

Rapid diagnose to pinpoint faulty PV modules and prevent the risk of failure by anticipating in advance.

## Datasheet

| Smart Rapid Shutdown Device       |                                                                       |             |             |
|-----------------------------------|-----------------------------------------------------------------------|-------------|-------------|
| Product Model                     | PVM-C16H-T2                                                           | PVM-C18H-T2 | PVM-C20H-T2 |
| INPUT                             |                                                                       |             |             |
| Maximum Input Voltage Per Channel | 80V                                                                   | 80V         | 80V         |
| Maximum Input Current             | 16A                                                                   | 16A         | 20A         |
| Maximum Short-Circuit Current     | 20A                                                                   | 22.5A       | 25A         |
| OUTPUT                            |                                                                       |             |             |
| Maximum Output Voltage            | 160V                                                                  | 160V        | 160V        |
| Maximum Output Current            | 16A                                                                   | 18A         | 20A         |
| Bypass                            | Yes                                                                   | Yes         | Yes         |
| Output Shutdown Voltage           | 1V                                                                    | 1V          | 1V          |
| COMMUNICATION                     |                                                                       |             |             |
| Communication                     | HPLC                                                                  |             |             |
| CERTIFICATION                     |                                                                       |             |             |
| Safety                            | UL1741<br>UL3741<br>CSA C22.2 No.330-24<br>NEC-2017&2020&2023(690.12) |             |             |
| EMC                               | FCC:47CFRPart15B<br>ICES-003:2020                                     |             |             |
| GENERAL PARAMETERS                |                                                                       |             |             |
| Number Of Input/Output Ports      | 2/1                                                                   |             |             |
| Dimension                         | 136mm(L)x61mm(W)x35mm(H)                                              |             |             |
| Weight                            | 610g                                                                  |             |             |
| Shutdown Time                     | <15s                                                                  |             |             |
| Operating Altitude                | 4000M                                                                 |             |             |
| Input Interface                   | MC4 Compatible/ MC4 Orignal                                           |             |             |
| Output Interface                  | MC4 Compatible/ MC4 Orignal                                           |             |             |
| Cable Length                      | PV1 0.75m PV2 0.75m PVOUT 2.7m/Customizable                           |             |             |
| Temperature Range                 | -40~85℃                                                               |             |             |
| Relative Humidity Range           | 0~100%                                                                |             |             |
| Ingress Protection Rating         | IP68                                                                  |             |             |
| Maximum System Voltage            | 1500V                                                                 |             |             |

\* The data in the above pages are theoretical values, which are obtained from the internal laboratory under specific test conditions. Actual use may vary slightly due to individual product differences, software versions, use conditions and environmental factors. Please refer to the actual situation in use.