

Model No: PV-CH-02

Solar Rapid Shutdown

Intelligent Monitoring + Rapid Shutdown

V202502



Product Description

The application scenarios of this product are various types of solar power systems, which can collect the data (such as power, voltage, current, temperature) of solar modules in real time, and the data is summarized at the communication gateway and uploaded to the server. At the same time, the product has the function of actively and quickly shutting off the output of the corresponding solar module when necessary. Avoiding security risks and recovering user losses.

Product Features

Safe and Rapid Shutdown

Rapid shutdown within 20 seconds;
Support one click rapid shutdown of the entire power station;
Support rapid discharge of common mode voltage

Real-Time Monitoring

Minute-level data monitoring, millisecond-level data response. Even if it is thousands of miles away, it is possible to grasp the power generation status of pv modules in real time through multiple channels

High Hardware Reliability

Applying top-notch performance ideal diodes;
Using the Staubli MC4 connector;
Support large-scale distributed power plants with a capacity of 100MW to solve the pain points of "crosstalk"

Strong Product Compatibility

20A high current, compatible with all mainstream brand solar panels on the market;
Compatible with mainstream brand 1100V system and below string inverters

Long Working Years

Selected and reliable components, double standard test conditions;
Strive to guarantee the same working life as pv modules

Easy Installation Maintenance

The buckle fixing method saves construction time;
One click intelligent networking, fast power generation, no need to scan codes, solving the pain points of "networking"; Module level monitoring for easy operation and maintenance

Technical Specifications

MODEL	PV-CH-02
ELECTRICAL PARAMETERS	
Input channels / PV modules	1 / 2
Input voltage range per channel	12 V ~ 125 V
Output voltage range	12 V ~ 125 V
Max. PV input current per channel	20A
Max. DC short-circuit current per channel (Isc)	30A
Maximum system voltage	1100V
Shutdown output voltage	1V
Power consumption	< 500mW
MECHANICAL PARAMETERS	
Dimensions	106*105*22mm
Mouting method	Buckle fixing
Input cable length	1.4 m (+ / -)
Output cable length	0.2 m (+) / 2.95 m (-)
Connectors	MC4 / MC4 compatible
ENVIRONMENTAL&PROTECTION	
Operating temperature range	-40 °C ~ 85 °C
Operating humidity range	0 % ~ 100 %
Degree of protection	IP68
DATA COMMUNICATION	
Communication method	PLC (≤ 350 m)
Monitoring platform	Solar Point intelligent data monitoring platform
Data cycle	5 min (customized)
DESIGN STANDARD	
Warranty	5 years
Design service life	25 years
CERTIFICATION STANDARD	
Certificate	TUV, CE, IEC/EN 62109-1, IEC/EN 61000-6-1/-2/-3/-4