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Sungo Energy DE

SUNGO Energietechnik GmbH
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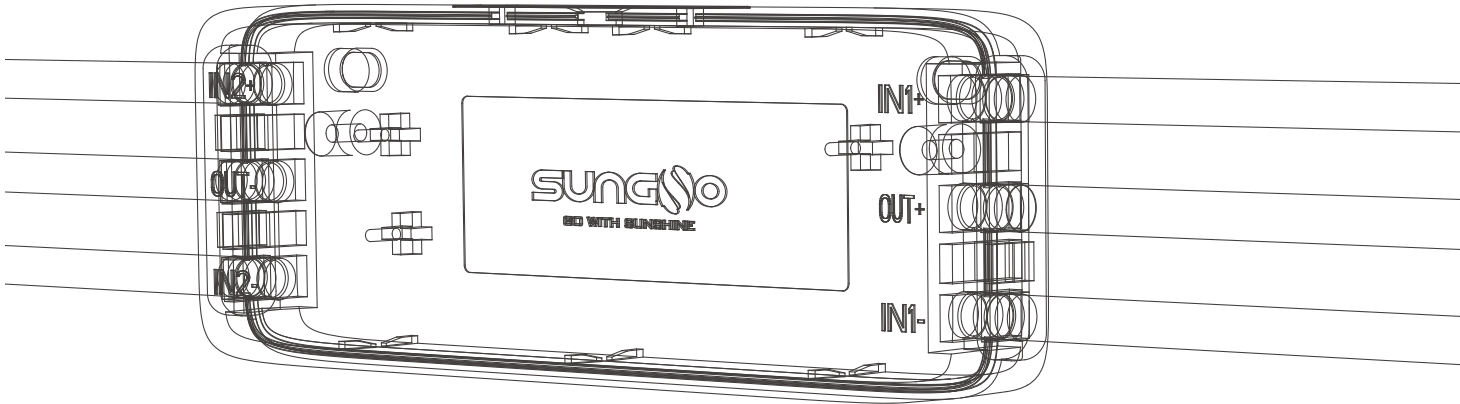
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Rapid Shutdown Device Product Brochure

GO WITH SUNSHINE



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SUNGO Energy


SUNGO Energy Technology focuses on the R&D and application of user-side solar+storage products, and is committed to providing global clients with excellent performance, leading-edge solar+storage products and comprehensive energy solutions. We have wide range product lines, including smart optimizers, rapid shutdown Device and lithium-ion battery energy storage systems, which covers the entire industrial chain to meet users' requirements. In the future, we will continue to increase investment in R&D, continuously improve our competitive advantages, and provide global clients with products which are more integrated, easier to install and maintain.


GO WITH SUNSHINE


**600 thousand**
Annual production capacity of RSDs

**30s**
Quick Installation


**15 years**
Industry experience


**Less than 15s**
Rapid shutdown

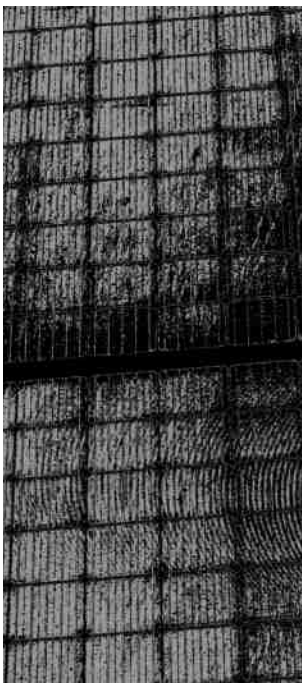
**30%**
Percentage of R&D staff


**25 years**
Extra-long warranty

RSD Application Scenarios

**Regulatory requirements**

**Prevention and control of hidden damage**

**Disaster control**

**Efficient Operation and Maintenance**

RSD Product Solutions

SUNGO Energy has been committed to the application and popularization of the rapid shutdown device to provide users with safer photovoltaic power plants. The shutdown products independently developed and produced by the company integrate the functions of rapid shutdown and module-level monitoring, which can effectively help the PV system realize safe guarding and fine management.



SUNGO RSD-2 & SUNGO SD
RSD (shutdown)



SUNGO RSDi-2 & SUNGO GTC
RSD(shutdown + monitoring)



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Smart Energy Management Platform

2-in-1 RSD & Rapid Shutdown Transmitter SUNGO RSD-2 & SUNGO SD

2-in-1 Rapid Shutdown Device Technical Parameters

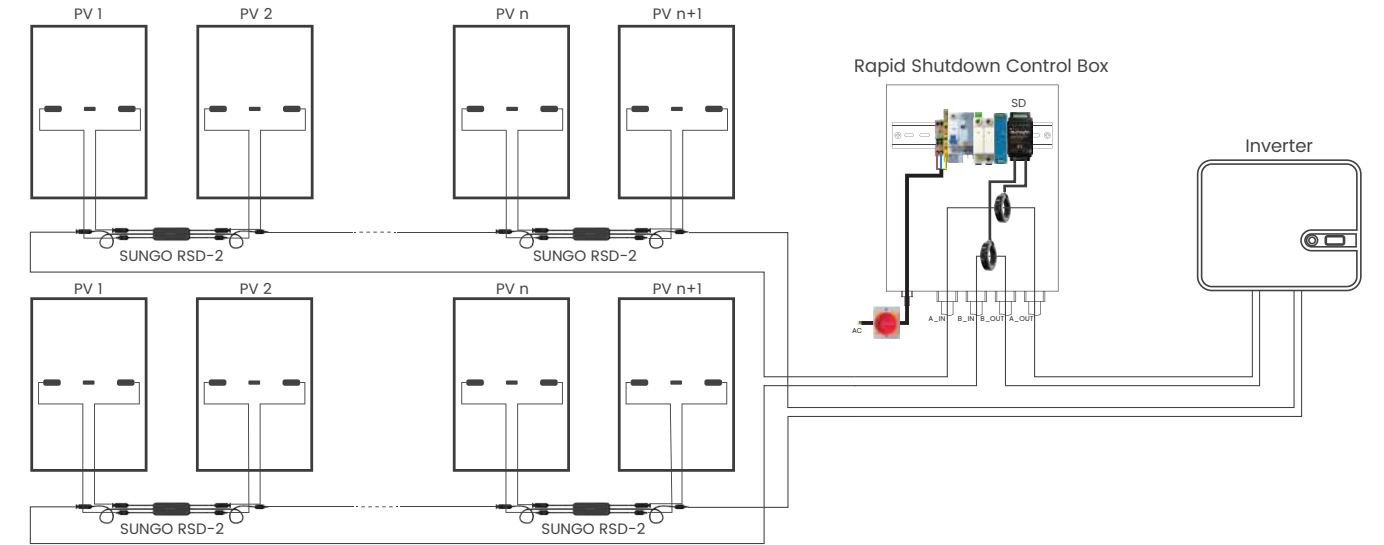
Model	SUNGO RSD-2
DC input	
Input voltage range	10~80V (Per channel)
Maximum Continuous input current	21A (Per channel)
Maximum Input short circuit current	23A (Per channel)
DC output	
Output voltage range	20~160V
Maximum Continuous output current	21A (Per channel)
Maximum System voltage	1000V/1500V
Rapid shutdown	
Shutdown time	<15s
Shutdown indication voltage*	1V
Communication method	
Complies with safety regulations	PLC
Production Compliance	IEC/EN62109-1
Specification	
Operating temperature range	-40~70°C
Dimensions (Without cables, connectors and mounting clips)	147*51*19.5mm
Cable length	Input 200mm/Output 2200mm(Can be customized according to customer requirements)
Cable specifications	TUV:4mm²/UL:12AWG
DC connectors	MC4
Shell protection grade	NEMA Type 6P / IP68
Packaging	20pcs/CTN 600pcs/pallets(20GP)

*The no-load test is greater than 1V, and needs to be tested with a load of 10mA (load of 100Ω) to be 1V.

Rapid Shutdown Transmitter Technical Parameters

Model	SUNGO SD
Input voltage	12VDC
Input current	0.8A
Max. Mppt string voltage	1500VDC
Max. number of series connections	30 modules
Operating temperature	-40~70°C
Safety regulation	NEC 2017&2020 (690.12); UL1741; CSA C22.2 No. 330-17
Magnetic ring inner diameter ID	35.6mm
Number of strings inserted per ring*	5
Max. number of strings to be inserted*	10
String route length	≤300m
Packaging	10pcs/CTN 180pcs/pallets(20GP)

*Reduce the number of strings according to the length of wiring on site to ensure normal PLC communication.



Features

- AC power failure, rapid shutdown of PV outputs
- Host and slave can synchronize signals
- Two channels of DC input
- 25 years products replacement warranty

SUNGO RSD-2 is a 2-in-1 rapid shutdown device, which maintains normal power-on operation by continuously receiving heartbeat frames sent from SUNGO SD, and when the SUNGO SD signal disappears, SUNGO RSD-2 performs a rapid shutdown operation. Users can turn off the power of SUNGO SD to realize the rapid shutdown of the system, complying with NEC 2017&2020 (690.12) specifications.



2-in-1 RSD & Data Gateway SUNGO RSDi-2 & SUNGO GTC



Features



AC power failure, rapid shutdown of PV outputs



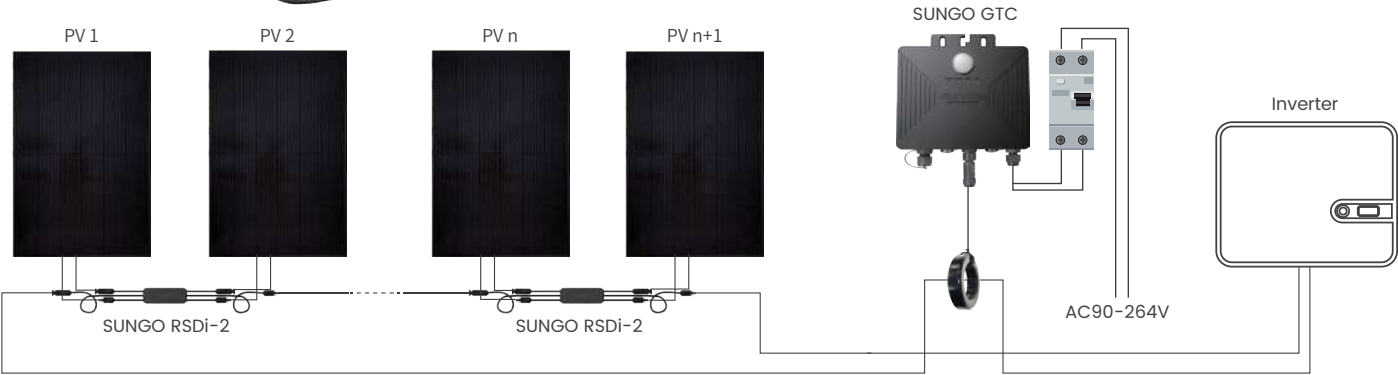
Module-level data intelligent monitoring, one App to manage the PV power plant



Two channels of DC input



25 years products replacement warranty



The SUNGO RSDi-2 is a rapid shutdown with data monitoring, matching the data gateway GTC, with a module-level rapid shutdown function that monitors the operating parameters of the PV modules and reports the operating status of the PV modules.

2-in-1 Rapid Shutdown Device Technical Parameters

Model	SUNGO RSDi-2
Dc Input	
Input voltage range	12-80V (Per channel)
Maximum continuous input current	21A (Per channel)
Maximum input short-circuit current	23A (Per channel)
Dc Output	
Output voltage range	20-160V
Maximum continuous output current	21A (Per channel)
Maximum system voltage	1000V/1500V
Rapid Shutdown	
Shutdown time	<15s
Shutdown indicator voltage*	Only PVI is connected, it is 1V; PVI and PV2 are connected, it is 2V; only PV2 is connected, no voltage
Communication	
Communication method	PLC
Communications parameter	PV Voltage,Output Voltage,Output Current,Output Power,Temperature,State
Complies With Safety Regulations	
Production Compliance	IEC/EN62109-1
Specification	
Operating temperature range	-40~70°C
Dimensions(W*D*H)	147*19.5*51mm
Input/output cable length	Input 200mm/Output 2200mm(Can be customized according to customer requirements)
Cable specifications	TUV:4mm²/UL:12AWG
DC connectors	MC4
Enclosure protection class	NEMA Type 6P / IP68
Packaging	20pcs/CTN 600pcs/pallets(20GP)

Data Gateway Technical Parameters

Model	SUNGO GTC
Match with	SUNGO iOPT 800W / SUNGO RSDi-2
AC Input Parameters	
AC input voltage range	90~264V
AC Input frequency	50/60Hz
Maximum AC input power	5W
Maximum AC input current	0.1A@90Vac
PV Input Parameters	
Terminals	MC4(Compatible)
Maximum system voltage	1500V
Nos of input strings	10
Maximum number of iOPT	200
Maximum number of RSDi-2	100
Communication Method	
Communication with optimizer	PLC
Communication with upper machine	2.4GHz Wi-Fi / RS485
Rapid Shutdown	
Initial state	Operate
Switch-on	Press the button once until the Running indicator lights up
Switch-on time	<5s
Shutdown	1. Press the button once until the RSD indicator lights up 2. Controller AC power off, all indicator lights off
Shutdown time	<15s
Standards	
Electromagnetic compatibility (EMC)	IEC61000-6-1 IEC61000-6-2 IEC61000-6-3
Production Compliance	IEC62109-1
RoHs	Yes
Installation Specification	
Dimension (W*D*H)	140*33.5*175mm
Weight	0.88kg
AC input cable length	1m
Protection level	IP67
Working temperature range	-40~+70°C
Cooling	Natural cooling
Form of installation	Wall hanging/holding, screw locking
Certification	CE
Packaging	8pcs/CTN 48pcs/pallets(20GP)

Smart Energy Management Platform

iSungo



App



Station interface for creating new stations and viewing station information



Core data is concise and clear at a glance



PV module layout for viewing PV module operating status



RSD detail for viewing PV module information status

Web



Multi-view display at a glance, easy to manage all your power stations

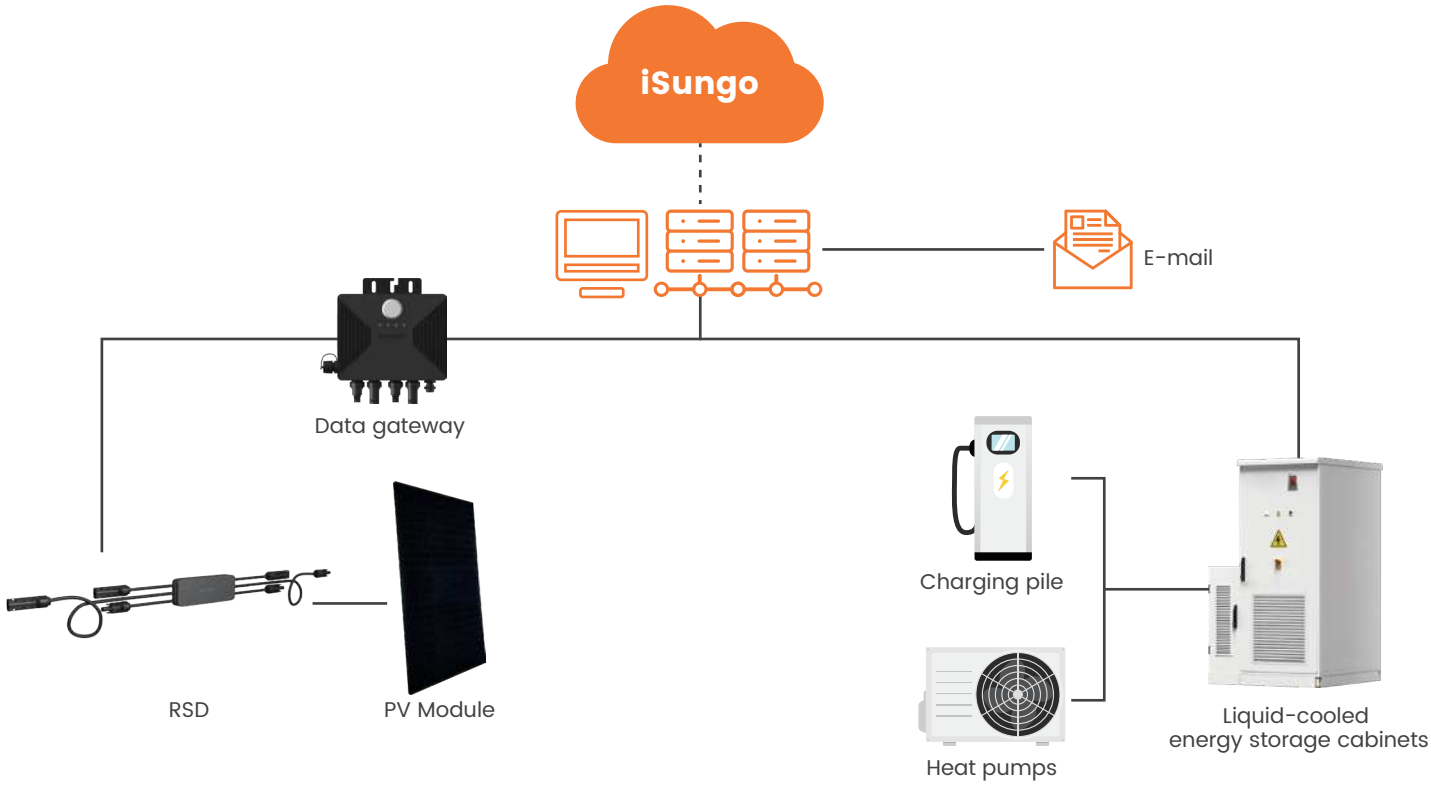


Fast access to module-level performance data to pinpoint module problems



View current and historical data by day, week, month and year, and automatically calculate returns

Network architecture



Features

- Intelligent management, data at a glance
- Module-level data management for easier operation and maintenance
- Comprehensive control of power station operation to realize maximum benefits
- Remote fault analysis to reduce O&M costs



Project Cases



March 2023-Guangdong, China-300 pieces



April 2023-Hubei, China-500 pieces



May 2024 - Jiangsu, China - 1500 pieces



January 2024-Shanghai, China-400 pieces



July 2024-Philippine-500 pieces



September 2024-Thailand-1800 pieces

Professional and Comprehensive Service



Fast Response

12-hour agreement signing, 24-hour accurate quotation



Professional R&D Team

Structural, electrical, software, industrial design engineers to satisfy the diverse requirements of clients

After-sales service



Remote support: first response and fault checking



On-site support: global programs with 24-hour access



Follow up & Customer Satisfaction Survey



Adhere to the concept of global localized operation and service