Deye

30240301004498

SAFETY

IMPORTANT SAFETY INSTRUCTIONS.
SAVE THIS INFORMATION.

Follow all safety and assembly instructions when installing the SUN-SMART-SWITCH01P3.

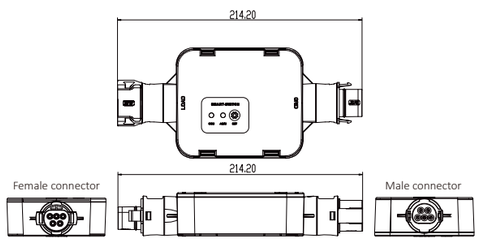
Safety Instructions

Labels	Description
	Caution, risk of electric shock.
	Caution, risk of burn - Do not touch.
	Caution, hot surface.
	Symbol for the marking of electrical and electronics devices according to Directive 2002/96/EC. Indicates that the device, accessories and the packaging must not be disposed as unsorted municipal waste and must be collected separately at the end of the usage. Please follow Local Ordinances or Regulations for disposal or contact an authorized representative of the manufacturer for information concerning the decommissioning of equipment.
CE	CE mark is attached to the solar inverter to verify that the unit follows the provisions of the European Low Voltage and EMC Directives.
	Refer to the operating instructions
Qualified personnel	Person adequately advised or supervised by an electrically skilled person to enable him or her to perceive risks and to avoid hazards which electricity can create. For the purpose of the safety information of this manual, a "qualified person" is someone who is familiar with requirements for safety, refrigeration system and EMC and is authorized to energize,ground, and tag equipment, systems, and circuits in accordance with established safety procedures. The inverter and endues system may only be commissioned and operated by qualified personnel.

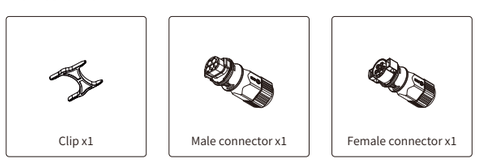
Introduction

SUN-SMART-SWITCH01P3 support multiple control methods:
(1) When the inverter enters off-grid mode, the smart switch will automatically turn off and remain disconnected;
(2) Turn off the switch on the local LCD of the inverter or manually through the cloud platform's APP or webpage, as well as the SET button on the switch body;
(3) Control the ON and OFF of the smart switch according to the set program: 4 adjustable time periods, each time period can set the battery SOC threshold for turning ON or OFF the smart switch.





Parts list

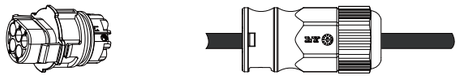


NOTE: To connect the AC cable with the male and female connectors, the external tools like screwdriver will be needed.

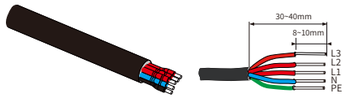
Installation

Step 1: Turn off the inverter or AC circuit breaker to ensure that the AC cables on the input and output sides of the smart switch have no voltage.

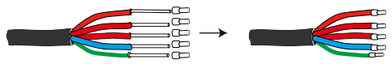
Step 2: Thread the AC cable of appropriate length through the swivel nut and the housing(B part) of external male connector.



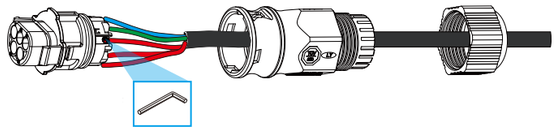
Step 3: Strip 30 mm ~ 40 mm of the cable jacked and 8~10 mm of the wire insulation.



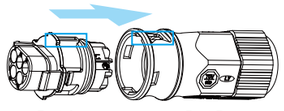
Step 4: (Optional) When using a multi-core multi-strand copper wire cable, connect the AC wire head to the cord end terminal (hand-tight). In case of single-strand copper wire, skip this step.



Step 5: Fix all the wires to the terminal of A part(terminal part)according to the polarity indication via the L-type Hexagon wrench inside the bag of the external connector.



Step 6: Rotate part A to the appropriate angle, then push part A towards part B. Part A will lock in place when there is an audible click.

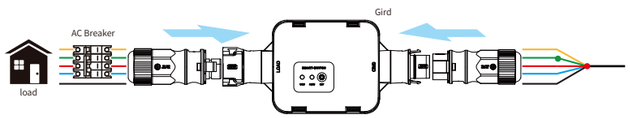


Step 7: Repeat the step 2 to 6 to complete the wire connection of external female connector.
Step 8: Plug the external male and female connector into the female and male connector of the smart switch.

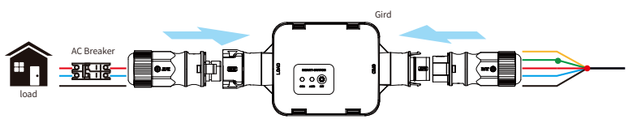


Usually, this smart switch supports the following several usage scenarios(not limited):

(1)Three-phase power source is connected to the Grid port of smart switch with five-core cable(3L+N+PE) and 4P breaker or three phase load is connnected to the Load port of smart switch with five-core cable(3L+N+PE)

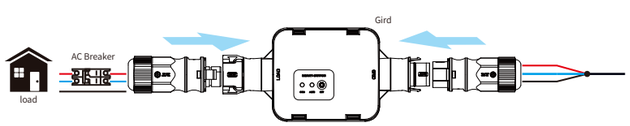


(2)Three-phase power source is connected to the Grid port of smart switch with five-core cable(3L+N+PE) and 2P breaker or single-phase load is connnected to the Load port of smart switch with three-core cable(L+N+PE).



(3)Single-phase power source is connected to the Grid port of smart switch with three-core cable(L+N+PE) and 2P breaker or single-phase load is connnected to the Load port of smart switch with three-core cable(L+N+PE)

The installation steps for single-phase scenarios are similar to the above steps.



Explanation of Indicator status

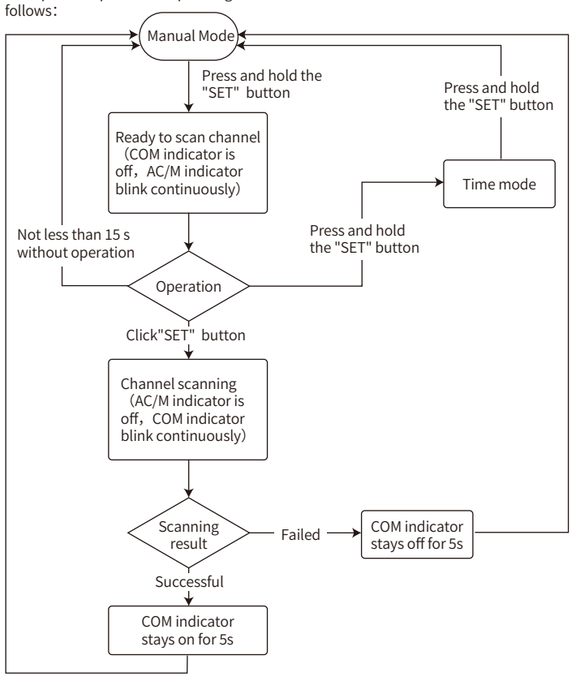
Indicator		Status	Explanation	Updating
	Blue light	Steady ON (5s duration)	Lora communication succeeded	Steady light
		Steady OFF(5s duration)	No lora communication	
		Steady ON (5s duration) → Blink 2 times → Steady ON (5s duration),cyclic	Manual mode(default)	
		Steady OFF (5s duration) → Blink 2 times → Steady OFF (5s duration),cyclic		
		Steady ON (5s duration) → Blink 3 times → Steady ON (5s duration),cyclic	Time mode	
		Steady OFF (5s duration) → Blink 3 times → Steady OFF (5s duration),cyclic		
	Red light			Steady light
	Red light			Steady light
	Blue light	Steady ON (5s duration)	The relay is engaged	Steady light
		Steady OFF (5s duration)	The relay is disconnected	
		Steady OFF (5s duration) →Blink 1 times → Steady OFF (5s duration),cyclic	Some relay is in a stuck state	
		Steady OFF (5s duration) →Blink 2 times → Steady OFF (5s duration),cyclic	Some relay failed to pull in	
		Steady ON/OFF (5s duration) →Blink 3 times → Steady ON/OFF (5s duration),cyclic	Some relay is overcurrent	
		Steady OFF (5s duration) → Blink 4 times → Steady OFF (5s duration),cyclic	Some relay is overvoltage	
		Steady OFF (5s duration) → Blink 5 times → Steady OFF (5s duration),cyclic	Some relay is undervoltage	

Manual mode：The smart switch can be turned ON/OFF through its own SET button, the LCD of the inverter, the APP on the smartphone, or the webpage of the cloud platform.

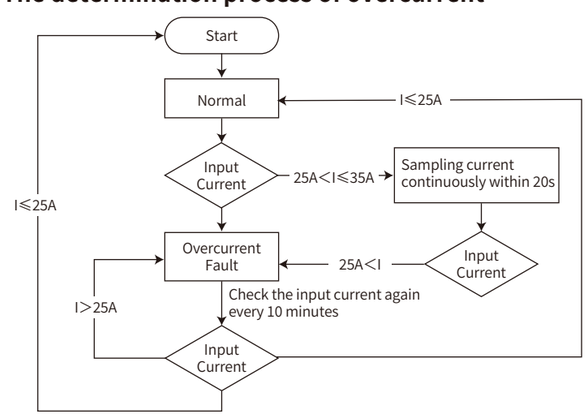
Time Mode：Use the programmable schedule to control the ON/OFF state of the smart switch, its own SET button cannot control its ON/OFF.

Channel scanning：The smart switch will scan the communication channel of the transmitter from channel 0 to channel 1.

The operation process of operating the SET button to switch modes and scan channels is as follows：



The determination process of overcurrent



Technical Data

Model:SUN-SMART-SWITCH01P3	
Electrical parameters	
Input Voltage range(V)	94-238Va.c.（Phase voltage）
connection type	L1/N(single phase)，L1/L2/L3/N(three phase)
Maximum current(A)	25Aa.c.（Phase current）
Frequency and Range	50Hz（45Hz-55Hz）/60Hz（55Hz-65Hz）
Connection	Connector plug-in type
Communication	
Communication model	Lora
Lora communication distance	Unobstructed 200m
Basic parameters	
Ambient Temperature Range	-40 to +45°C
Humidity	0%-100% RH
Enclosure Environmental Rating	IP65
Protection level	CLASS 1
Allowable altitude	≤4000
Cabinet Size (WxHxD)	96.7x204.7x37.7mm
Weight	0.4kg
Warranty	2 years
Standard	IEC/EN 61010-1
Lora parameters	
Frequency range	863MHz-870MHz
Antenna	Internal antenna
Antenna Gain	1.58dBi@868MHz

Troubleshooting

If you have any question you can't handle during using Deye products,please contact with our after services by email:service@deye.com.cn,details can refer to products' warranty.

EU Declaration of Conformity

CE

Download Declaration

within the scope of the EU directives
- Radio Equipment Directive 2014/53/EU (RED)
- Restriction of the use of certain hazardous substances 2011/65/EU)(RoHS)

NINGBO DEYE INVERTER TECHNOLOGY CO.,LTD. confirms herewith that the products described in this document are in compliance with the fundamental requirements and other relevant provisions of the above mentioned directives. The entire EU Declaration of Conformity and certificate can be found at https://www.deyeinverter.com/download/#smart-load.

Deye

250115003
www.deyeinverter.com

EU Declaration of Conformity

Product: **Radio Equipment(Smart Switch)**
Models:SUN-SMART-SWITCH01P3
Name and address of the manufacturer: Ningbo Deye Inverter Technology Co., Ltd.
No. 26 South YongJiang Road, Daqi, Beilun, NingBo, China

This declaration of conformity is issued under the sole responsibility of the manufacturer. Also this product is under manufacturer's warranty.
This declaration of conformity is not valid any longer: if the product is modified, supplemented or changed in any other way, as well as in case the product is used or installed improperly.

The object of the declaration described above is in conformity with the relevant Union harmonization legislation: The restriction of the use of certain hazardous substances (RoHS) Directive 2011/65/EU and the Radio Equipment Directive (RED) 2014/53/EU.

References to the relevant harmonized standards used or references to the other technical specifications in relation to which conformity is declared:

ETSI EN 300 220-2 V3.1.1	●
ETSI EN 301 489-1 V2.2.3:2019	●
ETSI EN 301 489-3 V2.3.2:2023	●
EN 62479:2010	●
EN IEC 61000-6-1:2019	●
EN IEC 61000-6-3:2021	●
EN 61010-1:2010+A1+AC	●

Nom et Titre / Name and Title:
Bard Dai
Senior Standard and Certification Engineer

Au nom de / On behalf of:
Date / Date (yyyy-mm-dd):
Ningbo Deye Inverter Technology Co., Ltd.
2025-01-15

A / Place:
Ningbo, China

EU DoC – v1

Ningbo Deye Inverter Technology Co., Ltd.
No. 26 South YongJiang Road, Daqi, Beilun, NingBo, China

Contact Information

NINGBO DEYE INVERTER TECHNOLOGY CO., LTD.
Add.: No.26 South YongJiang Road, Daqi, Beilun, NingBo, China.
Tel.: +86 (0) 574 8622 8957
Fax.: +86 (0) 574 8622 8852
E-mail: service@deye.com.cn
Web.: www.deyeinverter.com