

SAFETY  
IMPORTANT SAFETY INSTRUCTIONS.  
SAVE THIS INFORMATION.

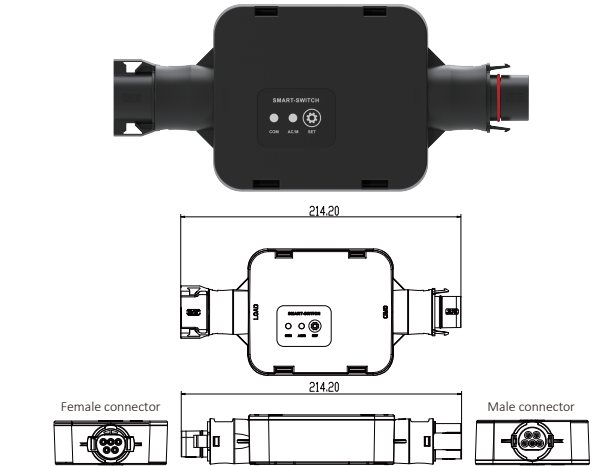
Follow all safety and assembly instructions when installing the SUN-SMART-SWITCHU2P3.

Safety Instructions

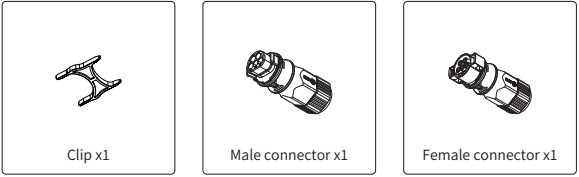
| Labels                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 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.<br>— Symbole pour le marquage des appareils électriques et électroniques conformément à la directive 2002/96/CE. Indique que l'appareil, les accessoires et l'emballage ne doivent pas être jetés avec les ordures ménagères non triées et doivent être collectés séparément à la fin de leurs utilisations. Veuillez suivre les ordonnances ou règlements locaux pour la disposition de l'équipement ou contactez un représentant agréé du fabricant pour obtenir des renseignements concernant la mise hors service des équipements.                                                                                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Refer to the operating instructions.<br>— Référez-vous au mode d'emploi.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 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.<br>— Personne adéquatement conseillée ou supervisée par une personne ayant des compétences en électricité et pouvant percevoir les risques et d'éviter les dangers liés à l'électricité. Aux fins de l'information sur la sécurité, dans ce manuel, une « personne qualifiée » est une personne qui est familière avec les exigences en matière de sécurité, de système de réfrigération et de CEM, et est autorisée à mettre sous tension, mettre à la terre et étiqueter l'équipement, les systèmes et les circuits de l'équipement conformément aux procédures de sécurité établies. L'onduleur et son système ne peuvent être mis en service et utilisés que par un personnel qualifié. |
| This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.<br><br>FCC warning:<br>Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.<br>Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:<br>-Reorient or relocate the receiving antenna.<br>-Increase the separation between the equipment and receiver.<br>-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.<br>-Consult the dealer or an experienced radio/TV technician for help.<br><br>This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.<br><br>— Cet appareil est conforme à la section 15 des règlements de la FCC. Son fonctionnement est soumis aux deux conditions suivantes : (1) cet appareil ne doit pas provoquer d'interférences nuisibles, et (2) il doit accepter toute interférence reçue, y compris celles susceptibles de provoquer un fonctionnement non souhaité. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

Introduction

SUN-SMART-SWITCHU2P3 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

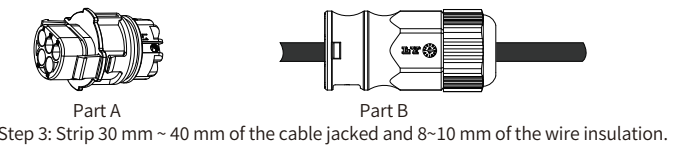


**NOTE:** To connect the AC cable with the male and female connectors, the external tools like screwdriver will be needed.

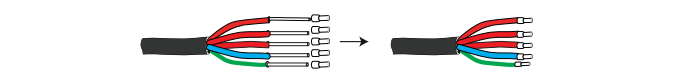
Installation

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.

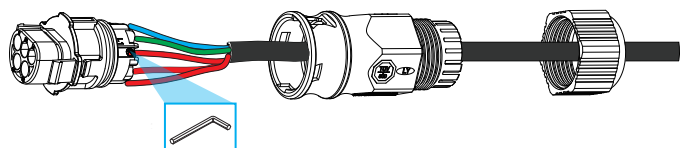
Step 2: Thread the AC cable of appropriate length through the swivel nut and the housing(B part) of external male connector.



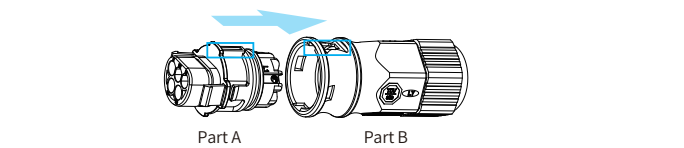
Step 4: (Optional) When using a multi-core multi-strand copper wire cable, connect the AC wire head to the cord end terminal (hand-tight). In case of single-strand copper wire, skip this step.



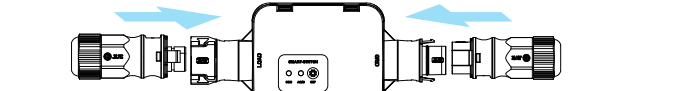
Step 5: Fix all the wires to the terminal of A part (terminal part) according to the polarity indication via the L-type Hexagon wrench inside the bag of the external connector.



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.

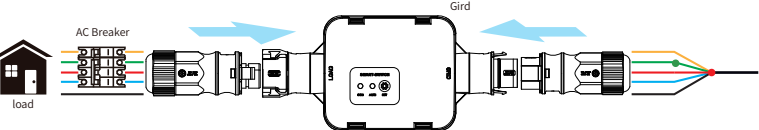


Step 8: Plug the external male and female connector into the female and male connector of the smart switch.

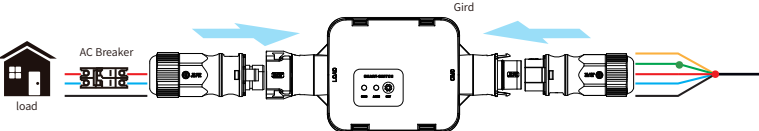


Usually, this smart switch supports the following several usage scenarios(not limited):

(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 connected to the Load port of smart switch with five-core cable(3L+N+PE)

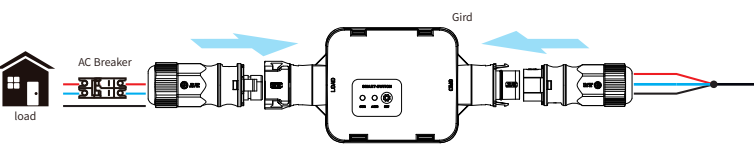


(2) Three-phase power source is connected to the Grid port of smart switch with five-core cable(3L+N+PE) and 2P breaker or single-phase load is connected to the Load port of smart switch with three-core cable(L+N+PE).



(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 connected 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

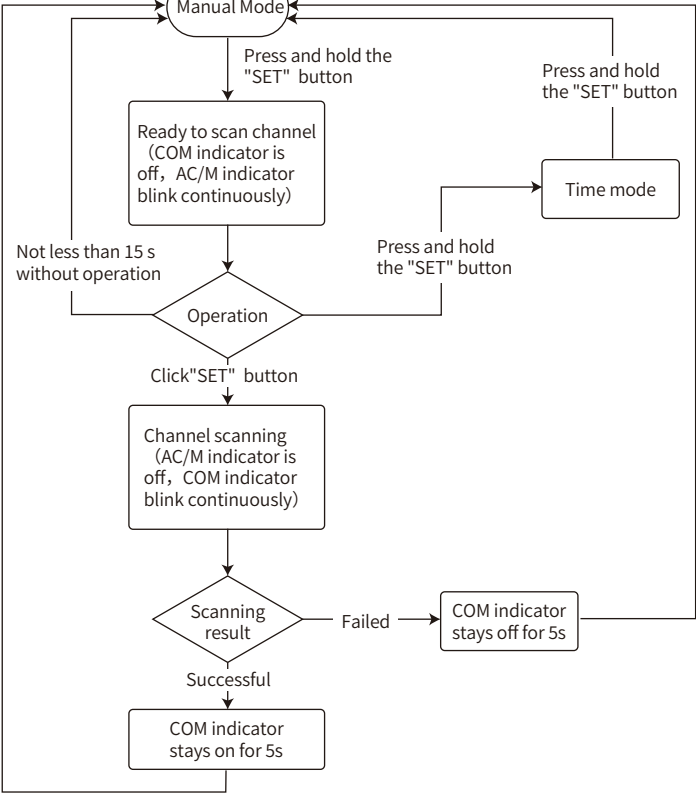
| Indicator                                                                           | Status     |                                                                                  | Explanation                    | Updating     |
|-------------------------------------------------------------------------------------|------------|----------------------------------------------------------------------------------|--------------------------------|--------------|
|  | 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.

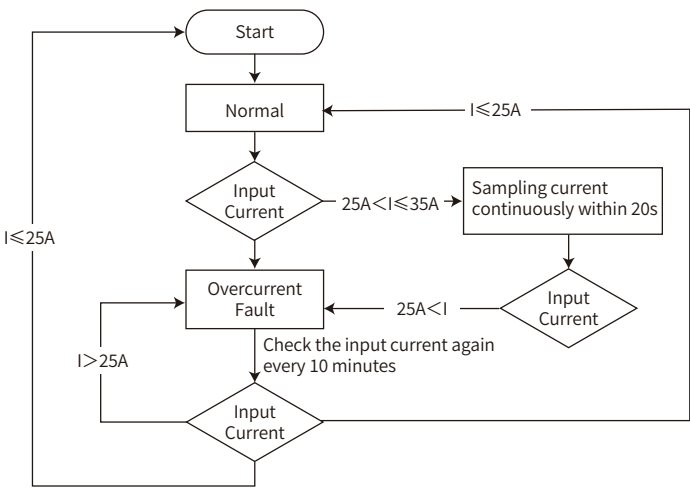
Time Mode: Use the programmable schedule to control the ON/OFF state of the smart switch, its own SET button cannot control its ON/OFF.

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

|                                    |                                                                   |
|------------------------------------|-------------------------------------------------------------------|
| <b>Model:</b> SUN-SMART-SWITCHU2P3 |                                                                   |
| <b>Electrical parameters</b>       |                                                                   |
| Input Voltage range(V)             | 94-238Va.c. (Phase voltage)                                       |
| connection type                    | L1/N(single phase), L1/L2/L3/N(three phase), L1/L2/N(split phase) |
| Maximum current(A)                 | 25Aa.c. (Phase current)                                           |
| Frequency and Range                | 50Hz (45Hz-55Hz) /60Hz (55Hz-65Hz)                                |
| Connection                         | Connector plug-in type                                            |
| <b>Communication</b>               |                                                                   |
| Communication model                | Lora                                                              |
| Lora communication distance        | Unobstructed 200m                                                 |
| <b>Basic parameters</b>            |                                                                   |
| Ambient Temperature Range          | -40 to +45°C                                                      |
| Humidity                           | 0%-100% RH                                                        |
| Enclosure Environmental Rating     | IP65                                                              |
| Protection level                   | CLASS I                                                           |
| Allowable altitude                 | ≤4000                                                             |
| Cabinet Size (WxHxD)               | 96.7x204.7x37.7mm                                                 |
| Weight                             | 0.4kg                                                             |
| Warranty                           | 5 years                                                           |
| Standard                           | UL 61010-1:2012; CAN/CSA-C22.2 No. 61010-1-12                     |
| <b>Lora parameters</b>             |                                                                   |
| Frequency range                    | 920MHz-928MHz                                                     |
| Antenna                            | FPC antenna                                                       |
| Antenna Gain                       | -0.03dBi@927MHZ                                                   |

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.

Regarding the commissioning of smart devices

Please scan the QR code below for the commissioning instructions of the smart devices.



Contact Information

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