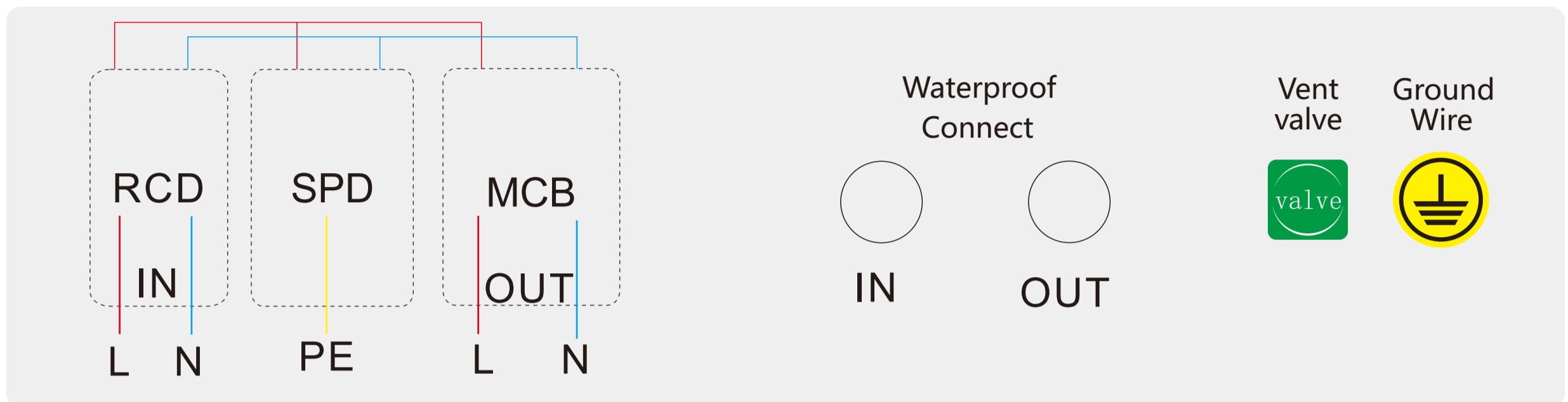


WIRING METHOD



1. Product Overview

Ac bushing box is an efficient, safe and reliable power bushing equipment designed for solar photovoltaic power generation system. Its main function is to collect the AC power output of multiple groups of photovoltaic modules, and connect to the power grid or subsequent power conversion system through the unified output interface. This product design is reasonable, compact structure, with lightning protection, overcurrent protection, short circuit protection and anti-island effect of multiple safety protection mechanism, to ensure the system stable operation and easy maintenance.

3. Safety guidance

- 3.1. Preparation before operation: Ensure that all power is cut off, and use a suitable electroscope to check and confirm.
- 3.2. Protective measures: Wear insulation gloves and shoes to avoid direct contact with exposed live parts.
- 3.3. Grounding requirements: Ensure that the device is grounded reliably with a grounding resistance of no more than 4.
- 3.4. Warning against electric shock: non-professionals shall not disassemble or modify the equipment without authorization

4. System structure

The AC bus bar and connecting line are composed.

The carefully designed layout of each component ensures reliable electrical connections.

The AC bus box mainly consists of the box, circuit breaker/fuse, surge arrester, and good heat dissipation performance.

5. Electrical wiring

- 5.1. Input cable connection: Connect the output AC cables of each group to the corresponding circuit breaker/fuse
- 5.2 based on the group status of the photovoltaic modules. Output wiring: Connect the lower end of the circuit breaker/fuse to the bus, and then lead out to the power grid or inverter through the main cable.
- 5.3. Ground cable connection: Ensure that all ground cables are correctly connected to the ground terminal of the device.

6. Installation and preparation

- 6.1. Location: Choose a place with good ventilation, no corrosive gases, no strong vibration and no direct sunlight.
- 6.2. Prepare the foundation: Install the support or foundation platform according to the size of the device to ensure that the level is stable.
- 6.3. Unpack: Check whether the device model and accessories are complete, and whether the appearance is damaged.
- 6.4. Installation sequence: Install the support first, secure the box, and connect incoming and outgoing cables.

7. Operation and maintenance

- 7.1. Regular inspection: Check whether the terminal is loose at least once a month, and there is no overheating phenomenon.
- 7.2. Cleaning and maintenance: regularly clean the dust on the surface of the box and keep the ventilation hole unblocked.
- 7.3. Check the surge arrester: Check the working status of the surge arrester at least once a year, and replace it if necessary.

TECHNICAL SPECIFICATION

Product Name	Ac bus box
Type Code	YRAC1/1 3KW
Rated Voltage	230V
Operation	16A
IN	1Strings
OUT	1String
Temperature Range	-25°C~+60°C
Protection Level	Ip65
AC RCD	2P 16A 30ma Type-AC
AC MCB	2P 16A VAC
AC SPD	2P 20-40kA 275VAC