

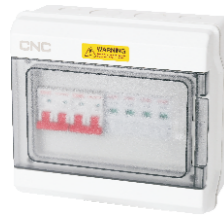
Photovoltaic DC Solutions YCX8 Series DC Combiner Box



YCX8-I Photovoltaic DC box



YCX8-DIS Door clutch DC isolating switch box



YCX8-BS Overload protection switch box

General

YCX8-□ series photovoltaic DC box can be equipped with different components according to different needs of customers, and its combination is diversified to meet different needs of customers. It is used for isolation, overload, short circuit, lightning protection and other protection of photovoltaic DC system to ensure the reliable and safe operation of photovoltaic system. This product is widely used in residential, commercial, and factory photovoltaic power generation systems.

And it is designed and configured in strict accordance with the requirements of "Technical Specifications for Photovoltaic Convergence Equipment" CGC/GF 037:2014.

Features

- Multiple solar photovoltaic arrays can be connected simultaneously, with a maximum of 6 circuits;
- Rated input current of each circuit is 15A (customizable as required);
- The output terminal is equipped with a photovoltaic DC high-voltage lightning protection module that can withstand a maximum lightning current of 40kA;
- High voltage circuit breaker is adopted, with DC rated working voltage up to DC1000, safe and reliable;
- The protection level reaches IP65, meeting the use requirements for outdoor installation.

Selection

| YCX8 | I | 2/1 | 15/32 | 8 |
|------------------|---|---|---|--|
| Model | Functions | Input circuit/ Output circuit | Input current per series/ Maximum output current | Shell type |
| Photovoltaic box | I: Isolation switch box | 1/1: 1 input 1 output 2/1: 2 input 1 output 2/2: 2 input 2 output 3/1: 3 input 1 output 3/3: 3 input 3 output 4/1: 4 input 1 output 4/2: 4 input 2 output 4/4: 4 input 4 output 5/1: 5 input 1 output 5/2: 5 input 2 output 6/2: 6 input 2 output 6/3: 6 input 3 output 6/6: 6 input 6 output | 15A(Customizable)/ Match as needed | Terminal box: 4, 6, 9, 12, 18, 24, 36 Plastic distribution box: T Fully plastic sealed box: R |
| | IF: Isolation switch box with fuse | | | |
| | DIS: Door clutch combiner box | | | |
| | BS: Overload lightning protection box (miniature) | | | |
| | IFS: Photovoltaic combiner box | | | |
| | IS: Isolation lightning protection box | | | |
| | FS: Overload lightning protection box (fuse) | | | |

* Due to the large number of scheme combinations, the shell part (dashed box content) is only used for internal selection and not for product marking models. The product will be produced according to the company's standard scheme. (To be confirmed with the customer before production)

* if the customer customizes other solutions, please contact us before placing an order

Photovoltaic DC Solutions YCX8 Series DC Combiner Box

Technical data

| Model | YCX8-I | YCX8-IF | YCX8-DIS | YCX8-BS | YCX8-IFS | YCX8-IS | YCX8-FS | | |
|--|-------------------------------|---------|----------|---------|----------|---------|---------|---|---|
| Rated insulation voltage(Ui) | 1500VDC | | | | | | | | |
| Input | 1、 2、 3、 4、 6 | | | | | | | | |
| Output | 1、 2、 3、 4、 6 | | | | | | | | |
| Maximum voltage | 1000VDC | | | | | | | | |
| Maximum input current | 1~100A | | | | | | | | |
| Maximum output current | 32~100A | | | | | | | | |
| Shell frame | | | | | | | | | |
| Waterproof terminal box: YCX8-return circuit | ■ | ■ | - | ■ | ■ | ■ | ■ | | |
| Plastic distribution box: YCX8-T | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | |
| Fully plastic sealed box: YCX8-R | ■ | ■ | - | ■ | ■ | ■ | ■ | | |
| Configuration | | | | | | | | | |
| Photovoltaic isolation switch | ■ | ■ | ■ | - | ■ | ■ | - | | |
| Photovoltaic fuse | - | ■ | ■ | - | ■ | - | ■ | | |
| Photovoltaic MCB | - | - | - | ■ | - | - | - | | |
| Photovoltaic surge protective device | - | - | ■ | ■ | ■ | ■ | ■ | | |
| Anti reflection diode | □ | □ | □ | □ | □ | □ | □ | | |
| Monitoring module | □ | □ | □ | □ | □ | □ | □ | | |
| Input/ output port | MC4 | □ | □ | □ | □ | □ | □ | | |
| | PG waterproof cable connector | □ | □ | □ | □ | □ | □ | | |
| Component parameters | | | | | | | | | |
| Photovoltaic isolation switch | Ui | 1000V | □ | □ | □ | - | □ | □ | - |
| | | 1200V | □ | □ | □ | - | □ | □ | - |
| | Ie | 32A | □ | □ | □ | - | □ | □ | - |
| | | 55A | □ | □ | □ | - | □ | □ | - |
| Photovoltaic MCB | Ie(max) | 63A | - | - | - | □ | - | - | - |
| | | 125A | - | - | - | □ | - | - | - |
| | DC polarity | Yes | - | - | - | □ | - | - | - |
| | | No | - | - | - | □ | - | - | - |
| Photovoltaic surge protective device | Ucpv | 600VDC | - | - | □ | □ | □ | □ | □ |
| | | 1000VDC | - | - | □ | □ | □ | □ | □ |
| | | 1500VDC | - | - | □ | □ | □ | □ | □ |
| | I _{max} | 40kA | - | - | □ | □ | □ | □ | □ |
| Photovoltaic fuse | Ie(max) | 32A | - | □ | □ | - | □ | - | □ |
| | | 63A | - | □ | □ | - | □ | - | □ |
| | | 125A | - | □ | □ | - | □ | - | □ |
| Use environment | | | | | | | | | |
| Working temperature | -20°C~+60°C | | | | | | | | |
| Humidity | 0.99 | | | | | | | | |
| Altitude | 2000m | | | | | | | | |
| Installation | Wall mounting | | | | | | | | |

■ Standard; □ Optional; - Non