

# DC Molded Case Circuit Breaker for Solar PV Systems

This DC molded case circuit breaker (MCCB) is designed to protect solar panels from overloads and short circuits. It can effectively interrupt electricity flow in the event of a fault, ensuring the safety of the entire solar setup.



## ADDITIONAL IMAGES



## Product Overview



Comprehensive protection against short circuits and overloads to safeguard solar installations.

### High-Performance Solar DC Protection

This Solar DC Molded Case Circuit Breaker (MCCB) is a critical safety component designed specifically for photovoltaic systems, protecting panels and equipment from overloads and short circuits. It is engineered to handle high voltage and current levels common in solar applications, featuring advanced trip units for rapid fault detection. Its compact design and versatile installation options make it an ideal choice for both residential and commercial solar energy setups.

## Key Performance Metrics

### Featured Metrics

**250 A**

Frame Grade Current

**1500 V DC**

Max Working Voltage

**50 kA**

Max Breaking Capacity

**20000 Cycles**

Mechanical Life

## Electrical Specifications



A variety of models available to suit different voltage and current requirements in DC circuits.

### Rated Current (In)

- 63
- 80
- 100
- 125
- 140
- 160
- 180
- 200
- 225
- 250
- 280
- 315
- 320

### Breaking Capacity by Voltage

Working Voltage (Ue)	Breaking Capacity (Icu)	Electrical Life
500V DC	50kA	3000 times
1000V DC	20kA	2000 times
1500V DC	20kA	1500 times

Number of Poles	2 / 3
Rated Insulation Voltage (Ui)	2300 V DC
Rated Impulse Withstand Voltage (Uimp)	12 kV

## Physical & Environmental



Constructed with PA66 flame retardant material for superior heat and chemical resistance.



Designed for reliable performance in extreme environmental conditions.

### Ingress Protection

IP20

#### Housing Material

PA66 Flame Retardant (Wear, heat, and chemical resistant)

#### Operating Temperature

-35°C to +70°C

#### Dimensions (LxWxH)

180mm x 76mm(2P)/107mm(3P) x 105mm

## Installation & Operation



Clear red and green visual indicators prevent incorrect operation by showing power status at a glance.

### Wiring Options

- Upper in and lower out
- Lower in and upper out (2P, 320/3P)
- Lower in and lower out (3P)
- Upper in and upper out (3P)

#### Installation Method

Fixed Type, Plug-in Type

#### Visual Indicators

Red (ON) and Green (OFF) light visualization for clear operational status

## Compliance & Features

### Quality Certificates

CCC • CB • TUV • CE • RoHS

### Available Accessories

- Auxiliary switch
- Alarm switch
- Off load
- Hand operation
- Electric operation

#### Compliance Standards

IEC 60947-2, GB/T14048.2