

# DC Molded Case Circuit Breaker

This DC molded case circuit breaker is designed for photovoltaic installations from array combiner boxes to AC/DC inverters and main panels. It provides protection against overloads and short circuits with thermo-magnetic trip technology.



## ADDITIONAL IMAGES



## Overview



The KYV series is designed for direct current applications, providing reliable overcurrent protection in demanding environments.

### High-Performance DC Circuit Protection

The KYV series DC Molded Case Circuit Breakers (MCCB) are specifically engineered for photovoltaic installations, ranging from array combiner boxes to AC/DC inverters. These units provide robust thermo-magnetic overload and short-circuit protection, ensuring the safety and reliability of solar power systems, electric vehicles, and battery storage environments. Featuring a compact design and high breaking capacity, they offer a versatile solution for demanding DC electrical systems.

## Key Performance Metrics

### Performance Highlights

**1000 V DC**

Max Operating Voltage

**15000 A**

Ultimate Breaking Capacity (Icu)

**8000 V**

Impulse Withstand Voltage

## Technical Specifications

### Model Range & Rated Current

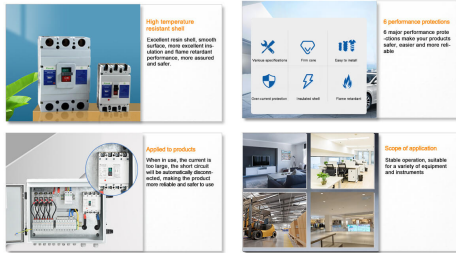
Model	Rated Current (A)
KYV-125MPV	63, 80, 100, 125
KYV-250MPV	125, 160, 200, 225, 250
KYV-400MPV	250, 315, 350, 400
KYV-800MPV	500, 630, 700, 800

Mechanical Endurance 4000

Electrical Endurance 100

## Features & Design

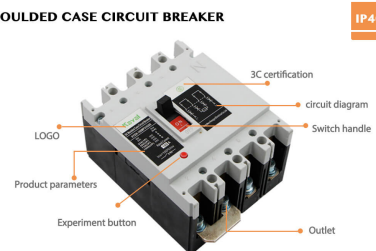
### CHARACTERISTIC



The unit features a high-temperature resistant, flame-retardant resin shell for enhanced safety and insulation performance.

### PRODUCT DESCRIPTION

#### MOULDED CASE CIRCUIT BREAKER



Detailed view of the circuit breaker interface including the experiment button, switch handle, and IP40 rated enclosure.

### Key Features

- Compact design for space-saving installation
- High breaking capacity
- Thermo-magnetic trip mechanism
- Available in 2, 3, and 4 pole configurations
- Visible ON/OFF indicator
- Integrated experiment button for functionality testing

### Safety Protections

Over-current Protection, Short-circuit Protection, Flame Retardant Shell, Insulated Housing, IP40 Rated

## Standards & Compliance

### Standards

IEC 60947-2 • 3C Certified

## Accessories

### Optional Accessories

- Shunt release
- Under-voltage release
- Auxiliary switch
- Alarm switch

## Applications

### Typical Applications

Photovoltaic Systems, Solar Array Combiner Boxes, Electric Vehicles, Battery Energy Storage, AC/DC Inverters