

# 1000V DC Surge Protection Device for PV Systems

This surge protection device is designed for photovoltaic (PV) systems. It provides surge protection with a  $U_o$  rating of 670V and a MCOV of 1000V, featuring an IP20 rating and compliance with DC/PV T2 protection standards.



## Product Overview

### Professional PV System Protection

This 1000V DC Surge Protection Device is engineered to safeguard photovoltaic systems from electrical surges and transients. Designed for indoor installation with a thermal protection function, it ensures reliable performance in diverse environmental conditions ranging from  $-40^{\circ}\text{C}$  to  $+80^{\circ}\text{C}$ . With a high nominal discharge capacity of 20kA and a maximum capacity of 40kA, it provides robust protection for industrial and residential solar arrays.

## Performance Metrics

### Key Electrical Ratings

**1000 V**

Max Continuous Operating Voltage

**20 kA**

Nominal Discharge Current

**40 kA**

Max Discharge Current

## Technical Specifications

### Operating Environment

Parameter	Value
Ambient Temperature	$-40^{\circ}\text{C}$ to $+80^{\circ}\text{C}$
Relative Humidity	5% - 95% RH
Voltage Protection Level	4.28 kV
Short Circuit Rating	800 A

### Compliance and Standards

IEC61643-11:2011, Class II, IP20

## Installation and Design

### Mounting and Configuration

- Fixed mounting method
- One port design
- Internal thermal disconnecter
- Supports 1P, 2P, 1P+N, 3P, 2P+N configurations