

DC Surge Protection Device

This surge protection device (SPD) is designed for DC photovoltaic systems. It protects against overvoltage and transient surges with a maximum discharge current of 40kA.



ADDITIONAL IMAGES



Overview

CHARACTERISTIC

<p>Lightning protection The combination of electrical applications and surge protection forms a comprehensive protecting body between the main line, the equipment and the SPD, and prevents the internal facilities caused by lightning and other surges and discharge. The maximum lightning current or surge current is limited to protect the safety of people and equipment in the building.</p>	<p>Performance protection Performance protection, make your lightning protection more secure, more safe and better.</p>
<p>Applied to products Surge protector (SPD) is an indispensable device in the lightning protection of most office equipment, protecting the protected equipment or system from impact.</p>	<p>Scope of application Widely installed in the building, such as the floor, computer center, telecommunication center, office, storage control center, cable TV room, building system, etc. control room. The control and control automatic control room, hospital operating room, research and development room, etc. equipped with electronic medical equipment building inside.</p>

High-Performance PV DC Surge Protection

The KYUD-40 is a specialized DC Surge Protection Device (SPD) designed specifically for photovoltaic systems, complying with the EN 50539-11 standard. It provides robust protection for PV DC combiner boxes, inverters, and controllers against lightning strikes and transient overvoltages. Featuring a modular plug-in design and high-energy varistors, it ensures rapid response times and simplified maintenance for critical solar infrastructure.

Key Performance Metrics

Technical Highlights

<p>1000 V Max DC Voltage (Uc)</p>	<p>40 kA Max Discharge Current</p>	<p>20 kA Nominal Discharge Current</p>	<p>25 ns Response Time</p>
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Electrical Specifications

Voltage Protection Level (Up)	3.8 kV
IEC/EN Category	IEC II / EN2
Available Poles	2P, 3P, 4P

Installation & Connectivity

Wiring Capacity

Cable Type	Range (mm ²)
Hard Cable	4-25
Flexible Cable	4-16

Tightening Torque

- Main Circuit: 2.5 Nm
- Remote Contact: 0.25 Nm
- Terminal Screw: M5

Mounting	Din Rail TH35-7.5/DIN35
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Environmental & Safety

Ingress Protection

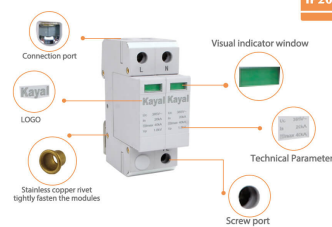
IP20

Operating Temperature	-40 to +80
Relative Humidity	30%~90%

Features

PRODUCT DESCRIPTION

SURGE PROTECTOR DEVICE



Operational Features

- Plug-in protection modules for easy maintenance
- Visual status indication (Green: OK / Red: Fault)
- Optional remote signaling contact (FM)
- High energy varistor technology
- Prewired modular complete unit

Remote Contact Rating	Max 30V DC / 1A
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