

# DC Voltage Surge Protection Device

This DC voltage surge protection device (SPD) protects sensitive equipment from transient overvoltages. It safeguards against damage caused by lightning strikes or power surges in DC voltage systems.



## ADDITIONAL IMAGES



## Overview



The EBS2UZ provides reliable 24-hour protection for solar DC systems with clear visual status indicators.

## Reliable DC Surge Protection

The EBS2UZ series is a high-performance Type 2 surge protective device specifically engineered for DC voltage systems, including solar photovoltaic applications. It provides robust defense against transient overvoltages caused by lightning strikes or switching events, ensuring the safety of sensitive downstream equipment. Featuring a modular design with a clear status indicator, this SPD offers a reliable, 24-hour protection solution for residential and commercial DC power setups.

## Key Performance Metrics

### Electrical Highlights

**20 kA**

Nominal Discharge Current (In)

**40 kA**

Max Discharge Current (Imax)

**25 ns**

Response Time

## Technical Specifications

### Technical Parameters by Model

Parameter	500/600V System	1000V System
Max Continuous Operating Voltage (Ucpv)	500V / 600V DC	1000V DC
Voltage Protection Level (Up)	d1.8V / 2.4kV	4.0kV
Standard Compliance	IEC61643-1	IEC61643-1
SPD Classification	Type 2 (T2)	Type 2 (T2)

## Installation & Environment

### Physical & Environmental

- Mounting: 35mm Standard DIN Rail Guide
- Operating Temperature: -40°C to +70°C
- Casing Material: PA6 UL94-V0 (Flame Retardant)
- Degree of Protection: IP20
- Wire Cross-section: 16mm<sup>2</sup> (Min) to 25mm<sup>2</sup> (Max)
- Status Indicator: Green (Good) / Red (Replacement Required)

## Advanced Features

### Remote Signaling (Optional)

- Inside preinstalled optional remote contact
- Max Rating AC: 250V / 0.1A
- Max Rating DC: 125V / 0.2A; 75V / 0.5A

## Compliance

### Certifications & Standards

IEC61643-1, CE, RoHS, TUV, CB