SURGE PROTECTION

The MidNite Solar Surge Protective Device (MNSPD) is a Type 1 device, designed for indoor and outdoor applications. Engineered for both AC and DC electric systems, it provides protection to service panels, load centers or where the SPD is directly connected to the electronic device requiring protection.

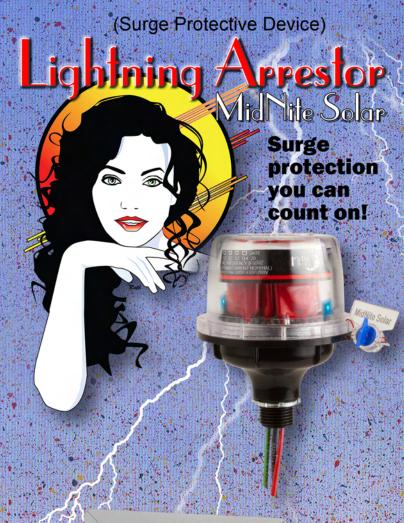
The SPD is offered in three different voltages to maximize the protection level. Protection is achieved by reducing the clamping voltage to a safe level that your system can sustain without damaging any electronics in the system.

Compare our SPD's against other surge protection devices. You will see there is no comparison in both our price and features. All our SPD's have a 5 year warranty.

four source to purchase from:

www.midnitesolar.com 17722 - 67th Ave NE, Arlington, WA 98223

ph. 360.403.7207 fax.360.691.6862 10-200-1





Three models to choose from! MNSPD115 MNSPD300 MNSPD600





MIDNITE SOLAR SURGE PROTECTION DEVICE

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Part No	D.	MNSPD115 MNSPD300		MNSPD600		
Nominal Voltage		0 to 90 VAC 0 to 115 VDC	0 to 250 VAC 0 to 300 VDC	0 to 485 VAC 0 to 600 VDC		
MCOV		180V (162-198)	470V (423-517)	780V (702-858)		
Clamp Voltage @ 100A Current 8/20 μs		295V	775V	1290V		
Energy In Joul	Absorption es	1120 J (Full Device) 560 J (Each Section)	3130 J (Full Device) 1560 J (Each Section)	4320 J (Full Device) 2160 J (Each Section)		
Sugges	sted Placement	Up to 90 VAC circuits, 12V, 24V, 48V DC battery circuits	120/240 VAC circuits Offgrid PV combiners Charge controller inputs up to 300VDC	316V/480 VAC circuits Grid tie PV combiners Grid tie inverter input Non-Isolated Inverters		
Diagno	Diagnostic Blue LED SPD115+300 LED indicators when voltage is present between L1+Ground and L2+Ground					

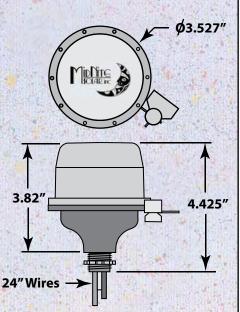
SPD600

LED Indicators when voltage is present between L1+L2

Thermal Disconnector - Internal Fuse

Response time

<1micro sec.



Performance

Surge Current Rating per Phase Short Circuit Current Rating T-MOVs Fusing Thermal Fusing Overcurrent Fusing Operating Frequency

8 Individually fused MOVs Yes Yes

Yes 0 to 60 Hz

57kA

115kA

Mechanical Description

Enclosure
NEMA Rating
Connection Method
Weight
Mounting Method
Operating Altitude
Storage Temp
Operating Temp

Polycarbonate UL94V-0 NEMA Type 4X #12 AWG 1 lb. 1/2" Conduit Knockout

Sea Level – 12,000′ (3,658 Meters) -40° F to +185° F (-40° C to +85° C) -40° F to +185° F (-40° C to +85° C)

Diagnostics

Blue status LED, one per leg

Listings and Performance

UL Standard for Safety, UL 1449 Surge Protective Devices-Third Edition CSA C22.2 No. 8-M1986 Electromangetic Interference (EMI) Filters, Fourth Edition

	Max Operating	Surge Current	1	ı		VPR 600V/3kA
Model No.	Voltage	per Phase	Configuration	MCOV	SCCR	L-G
MNSPD115	90VAC/115VDC	57kA	1 Ø, 3-wire (2 Legs)	180V L-N	115kA	330V
MNSPD300	250VAC/300VDC	57kA	1 Ø, 3-wire (2 Legs)	470V L-N	115kA	800V
MNSPD600	485VAC/600VDC	57kA	1 Ø, 3-wire (2 Legs)	780V L-N	115kA	1500V