MIDNITE SOLAR INC. Surge Protection

Surge Protection You Can Count On!

MidNite Solar Surge Protection Devices are type 1 devices, designed for indoor and outdoor applications. Engineered for both AC and PV DC electrical systems, they provide protection to service panels, load centers or electronic devices that are directly connected to a MidNite Surge Protection Device (SPD).

MidNite's SPD's are offered in four models to protect a variety of different voltage ranges. They achieve this protection by clamping surge voltage to a level that your system can sustain without damaging the components of 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.

With lightning you only get one chance, so get the best!



www.midnitesolar.com/spd 19115 - 62nd Ave. NE., Arlington, WA. 360-403-7207 FAX: 360-691-6862



MNSPD300ACFM (Cut-in box) (MNSPD-300-AC included)



Four Models:

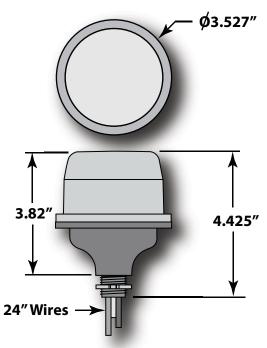
MNSPD-115 MNSPD-300-AC MNSPD-300-DC MNSPD-600





MidNite Surge Protection Devices

PART NUMBER	MNSPD-115	MNSPD-300-AC	MNSPD-300-DC	MNSPD-600			
Nominal Voltage	0 to 90 VAC 0 to 115 VDC	0 to 250 VAC	0 to 300 VDC	0 to 480 VAC 0 to 600 VDC			
MCOV	180V	470V	470V	780V			
VPR Line to Ground	600V	1200V	1200V	1800V			
Suggested Placement	Up to 90VAC circuits, 12V, 24V, 48VDC battery circuits	120/240 VAC circuits ,	Off-grid PV combiners Charge controller inputs up to 300VDC	316V/480 VAC circuits Grid-tie PV combiners Grid-tie inverter input Non-Isolated Inverters			
Туре	UL1449 4th Ed. Type 1	UL1449 4th Ed. Type 1	UL1449 4th Ed. Type 1	UL1449 4th Ed. Type 1			
Diagnostic Blue LED	MNSPD-300-AC LED indicates when voltage is present between L1 + ground and L2 + ground MNSPD-115, MNSPD-300-DC and MNSPD-600: LED indicates when voltage is present between L1 + L2 (PV+ PV-)						
Thermal Disconnector	Internal Fuse			-			
Response Time	<1 micro sec.		M				
			1	IDNITC SOLAR INC			



Performance			
Surge Current Rating per Phase	80kA		
Short Circuit Current Rating	10kA		
Fusing	Individually fused MOVs		
Thermal Fusing	Yes		
Over current Fusing	Yes		
Operating Frequency	0 to 500 Hz		
Mechanical Description			
Enclosure	Polycarbonate UL94V-0		
Environmental Rating	Type 4X		
Connection Method	#12 AWG		
Weight	1 lb.		
Mounting Method	1/2" Conduit Knockout		
Operating Altitude	Sea Level – 12,000' (3,658 Meters)		
Storage Temp	-40° F to +185° F (-40° C to +85° C)		
Operating Temp	-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			
CSA C22.2 No. 8-M1986 Electromang	etic Interference (EMI) Filters, Fourth Edition		

Model No.	Max Operating Voltage	Surge Current per Phase	Configuration	мсоv	SCCR	VPR 600V/3kA L_G
MNSPD-115	100 VAC/150VDC	80kA	1 Ø, 3-wire (2 Legs)	180V L-N	10kA	600V
MNSPD-300-AC	300VAC	80kA	1 Ø, 3-wire (2 Legs)	470V L-N	10kA	1200V
MNSPD-300-DC	385VDC	80kA	1 Ø, 3-wire (2 Legs)	470V L-N	10kA	1200V
MNSPD-600	480VAC/600VDC	80kA	1 Ø, 3-wire (2 Legs)	780V L-N	10kA	1800V

www.midnitesolar.com/spd 19115 - 62nd Ave NE, Arlington, WA 98223 PH. 360-403-7207 FAX 360-691-6862