

SP-vDC-AM Surge Protectors

State-of-the-Art High Performance Protection for DC Circuits

What is the Hazard?

Electrical storms pose a special threat to DC powered equipment and DC power lines. This would include equipment connected to batteries, photovoltaic cells, battery chargers and DC buses.

Lightning can induce electrical surges and transients of incredible destructive force, having thousands of volts and hundreds of joules, in a span of a few microseconds. Other harmful transients are man-made: utility switching, in-house switching, motors and machinery. All of these transients can degrade and damage unprotected equipment.

SP-vDC-AM Surge Protectors are the Solution

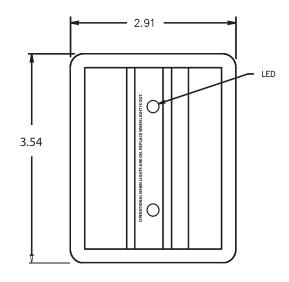
There is a device that provides absolute protection for DC equipment, the SP-vDC-AM by LEC. The SP-vDC-AM protects all modes (L-L, L-G) against both the high-energy, fast-rising transients and the slower high-energy impulses.

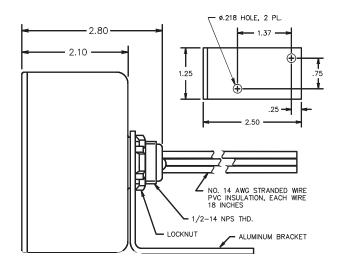
System features and benefits

- SPD Category and Type Full weather permanently connected.
- Technology Matrix of individually fused Metal Oxide Varistors.
- Application For direct connection to power buses, load centers or equipment input/ outputs. May be used on grounded (+ or -) or floating power systems, for dc or low voltage ac (up to 400 Hz).

 Features – LEDs for L-L and L-G protection modes indicate proper functioning of each element.

Dimensions





Toll Free: 1-800-521-6101



Specifications

Model Number		SP-30-VDC-AM	SP-60-VDC-AM	SP-90-VDC-AM	SP-150-VDC-AM		
Maximu	m Continuous Oper	ating Voltage U	max				
		30 Vdc	60 Vdc	90 Vdc	150 Vdc		
		25 Vac	45 Vac	65 Vac	110 Vac*		
Varistor	Voltage at 1 mA do	:					
		40 V	80 V	120 V	200 V		
Suppres	sion Voltage, L-N, N-C	using ANSI/IEEE	C62.41 Wavesha	pes			
200 A	100 kHz	95 V	135 V	185 V	290 V		
500 A	100 kHz	115 V	155 V	205 V	315 V		
500 A	8/20 μs	90 V	130 V	180 V	290 V		
3 kA	8/20 μs	145 V	170 V	245 V	360 V		
5 kA	8/20 μs	180 V	200 V	280 V	425 V		
10 kA	8/20 μs	255 V	260 V	355 V	510 V		
Surge En	nergy Capability						
10/1000	μs, total						
		240 J	670 J	1020 J	1680 J		
Max Sur	ge Current, I _{sn max}						
		25 kA	50 kA	50 kA	50 kA		
Surge Li	fe, 3 kA, 8/20 μs						
		800 x	3000 x	3000 x	3000 x		
Compon	ent Response Time				<1 ns		
Operatir	Operating Temperature -40° to +80°			to +80° C			
Operating Altitude				1500 ft / 5000 m			
Shipping	y Weight			1.5	bs / .7 kg		
CE Comp	liant with Directive 72	/22/EEC EN 600E0	(*M- 4-1 CD 1E0 1/D	C AM :+:-+	f 110 120 \/		

CE Compliant with Directive 73/23/EEC, EN 60950 (*Model SP-150-VDC-AM is not intended for use on 110-120 Vac power systems.)

Characteristics

Connection Means

Mounts through $\frac{1}{2}$ knockout or by it's bracket, connects in parallel with load

· · · · · · · · · · · · · · · · ·		
Upstream Overcurrent Device	None Required	
Protection Modes	L-L, L-G	
Leakage, L-G at MCOV	50 μA dc, 500 μA ac	

Consulting and Technical Support

We are a full-service firm aligned to solve your most complex challenges in surge suppression, grounding, and lightning protection. Call us today at **+1-303-447-2828** to learn how our solutions can maximize your operation's potential.

Toll Free: 1-800-521-6101