

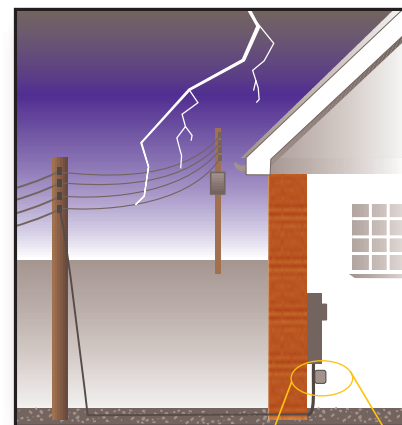
AVAILABLE IN
SINGLE OR
THREE PHASE

THE SOLLATEK DISTRIBUTION SURGE PROTECTOR (DSP)

The electrical and electronic equipment in your building is more threatened than ever by increasing power problems.

The most damaging of these problems are spikes, surges and sags (which includes lightning).

Connected at the point of entry distribution panel, the **Sollatek DSP** provides a barrier at the entry level into the house, office or factory, protecting all electrical and electronic equipment against surges, spikes and transients conducted through the power distribution boards.



Sollatek
The Power to Protect

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Mains power quality is a serious issue. In today's world, we all depend on our computers, phones, and other electronic systems more than ever. Yet at the same time, this technology is more threatened than ever by increasing mains power problems. The most damaging of these problems are spikes, surges and sags (including lightning).

Your sensitive electronic equipment is facing a number of power aberrations every time you plug it in.

Spikes and lightning surges are high-magnitude, split-second events that can disrupt computer operations and even damage electronic equipment.

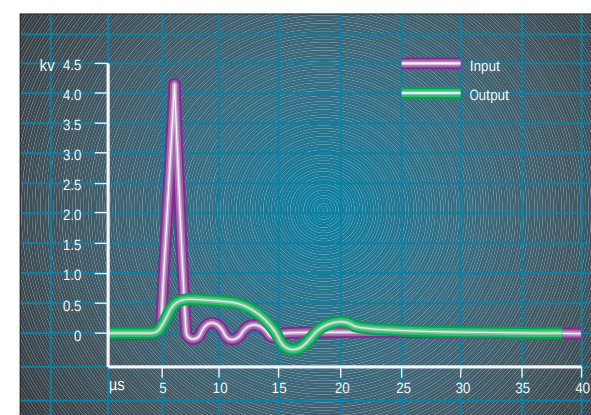
Spikes can be caused by many circumstances. The commonest cause is lightning, which can strike on or near a power line - or even miles away - and cause huge jumps in voltage. Other causes of spikes include switching large electrical loads on or off, mains switching, and static discharges. The most disastrous effect of spikes can be actual hardware damage. High-voltage impulses can actually blow holes in delicate microchip traces. Sometimes this damage is immediately apparent, but other times it is latent, not appearing until days or weeks after the event. Less catastrophic effects include corrupted data, printer or terminal errors, and data processing errors.

The Sollatek DSP comes as a single phase unit (DSP1P-0) and as a three phase unit (DSP3P-0) and is connected at the point of entry distribution panel. It works by preventing surges and transient overvoltages from filtering through the incoming mains supply and damaging sensitive electrical and electronic equipment.

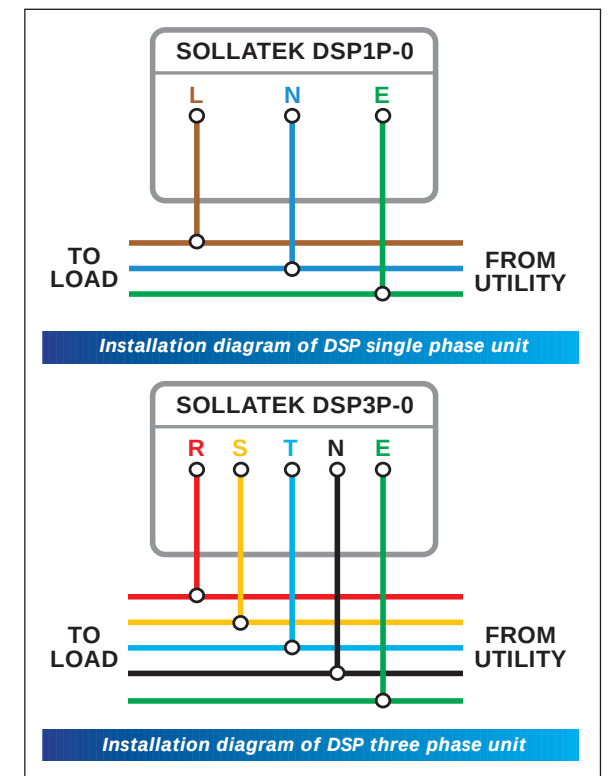
The DSP employs Metal Oxide Varistor technology to clamp the excess voltage between phases and earth to neutral to a safe level, thereby preventing potentially disastrous damage.

The units feature LEDs on the front panel to indicate the level of protection available at any time. Two LEDs indicates full protection; one LED indicates a reduced level of protection. When no LEDs are illuminated the protection is no longer operational and the unit should be serviced.

Fuses are incorporated into the DSP to protect against damage caused by excessively high current transients during surge diversion. Blown fuses are indicated by the status LEDs on the front panel.



DSP spike suppression graph



TECHNICAL SPECIFICATIONS

Maximum let through voltage (8/20 ms)	750V
Response time	<10 ns
Peak discharge current	20 kA
Nominal voltage (DSP1P-0)	220/240V
Nominal voltage (DSP3P-0)	380/415V
Total energy (DSP1)	1280 J
Total energy (DSP3)	2560 J
Terminations	
Brass terminals	6mm ²
Dimensions (L x W x H)	200 x 130 x 60 mm
Weight	
DSP1P-0	560gms
DSP3P-0	680gms

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