

## Surge Suppressor Details



A Surge Arrestor (aka. Surge Protector/Suppressor) is a device that acts essentially as safety release valve should a very large in-rush of voltage/current finds its way into a building and into the PDU.

Surges can be forms of atmospheric disturbance such as lightning strike hitting a building (LEMP – Lightning Electromagnetic Pulse) and internal causes such as large devices switching On /Off (SEMP – Switching Electromagnetic Pulse)

A PDU Surge Arrestor intersects the incoming mains feed across the Live, Neutral and Earth terminals. When a large transient voltage enters the PDU through any one of the terminals the Surge Protector attempts to re-route this transient voltage away from the PDU and back down the incoming mains cable. This creates a temporary dead short and moves the brunt of the transient voltage to ground.

Surge Protection comes in various forms and offers different levels of protection. This PDU Surge Arrestor is a last stage (or Terminal Stage) Surge Protector as it is located nearest the end-of-the-line terminal equipment.

<i>Performance</i>	<i>Parameter</i>
<i>Rated Voltage</i>	250V AC @ 50Hz
<i>Max Continuous Operating Voltage</i>	320V AC
<i>Nominal Discharge Current (8/20 <math>\mu</math>S)</i>	10KA
<i>Voltage Protection Level (UP)</i>	<1000V
<i>Response Time (tA)</i>	< 25 nS
<i>Protection Mode</i>	L-N / L-E / N-E
<i>Insulation Resistance (RIS)</i>	> 100M $\Omega$
<i>Fire Resistance</i>	Up to UL94V-0