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Novaris®

SURGE FILTER

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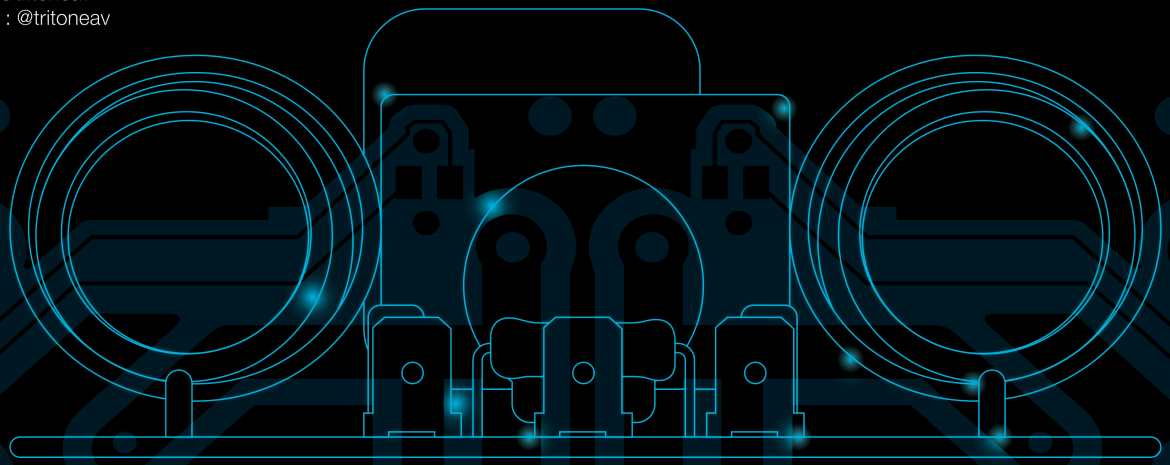

Plug-in Surge Filters

Novaris plug-in surge filters plug into a standard mains outlet socket to provide permium protection for sensetive or critical electronic equipment

PP 10 A 2 - 50

- **Product Series**
- I_L
- **Plug type**
- I_{max}
- **Outlets**

	PP10A2-50	PP10A4-50	PP10A6-50	PP10A8-50
Electrical Specifi cations				
Connection type	Series			
Modes of protection	Full mode (L-N, L-PE, N-PE)			
Nominal voltage (U_0)	230V / 50Hz		110V / 60Hz	
Maximum continuous voltage (U_C)	275V / 50Hz		130V / 60Hz	
Maximum discharge current (8/20µs) (I_{max})	50kA			
Maximum load curent (I_L)	13A			
Protection stages	Metal oxide varistor / LC filter / Metal oxide varistor			
Voltage protection level @3kA (8/20µs) (U_P)	<600V			
Response time (t_A)	Instantaneous			
Power Consumption (@230V 50Hz)	<1W			
Attenuation	-3dB at 900Hz, -60dB at 100kHz			
Earth leakage current	<200µA			
Maximum voltage drop (% of U_0) (ΔU)	<1%			
Display	LED power and status			
Mechanical Specifi cations				
Operating temperature / humidity	-40 to +70ºC / 0 to 90% non-condensing			
Connection type - line side cord	IEC C14 Inlet			
Connection type - load side outlet	10A Australian (type I) outlet			
Number of outlets	2	4	6	8
Environmental	IP 20			
Mounting	Free standing, optional wall mount			
Weight	1.3kg			
Dimensions				
Width	155mm	205mm	255mm	305mm
Height	140mm			
Depth	60mm			

Standards Compliance
IEC 61643-11 class II, III
AS/NZS 1768 categories B, C
IEEE C62.41 categories B, C
BS 6651 categories B, C
CP 33 categories B, C
UL1449 third edition
IEC 61000-4-5:2005
MS 1144: 1998+ MS 589-2
AS/NZS 3197: 2005

Plug Types	
Australian - AS-3112	A
European - CEE7/4	E
British - BS-1363	B
Universal	U

Novaris® POWER PROTECTION
Surge Filters

Class Leading Surge Protection with AC Line Power Filter

Transient overovltages superimposed on the AC mains are a major cause of electronic equipment failure. Most small surges go unnoticed but cause permanent degradation of electronic components, reducing their lifespan.

Damaging power surges can originate from many sources:

- Direct lightning strike to the power grid
- Earth potential rise from a nearby ground lightning strike
- Induced surges
- High Voltage Line to Low Voltage Line Fault
- High Impedance Load Switching
- Uncontrolled inrush current
- Adjacent equipment failure

Novaris plug-in surge filter unit is a professional grade powerline filter and surge protection unit especially designed to improve the power quality for sensitive, expensive and critical equipment like

- High end audio systems
- Home theatre and large flat screen TV's
- Network infrastructure
- Servers and workstations
- Medical equipment
- Mission critical control equipment

Most surge protection power boards only provide a single layer of protection between your valuable equipment and damaging transient signals. The Novaris surge filter employs a 3 stage surge protection network to provide a premium level of protection.

Stage 1 is a delta (Δ) configuration of high energy Metal Oxide Varistors designed to provide the front line protection against large current and voltage exposure.

Stage 2 is a low pass LC filter designed to allow low frequency 50Hz or 60Hz power to pass through whilst attenuating any high frequency transients. This active tracking filter also conditions the power feeding your equipment and prevents large inrush currents. The fundamental frequency of the AC power system is 50 or 60Hz. AC electronic equipment is designed to utilise power from this fundamental sinusoidal waveform. Dirty AC power contains frequencies other than the fundamental frequency such as harmonics, load switching transients and switch mode frequency disturbances.

Dirty AC power can affect the performance of your electrical equipment creating effects such as:

- Audio noise and distortion
- Loss of picture quality
- Microprocessor freeze and data loss

Stage 3 is a secondary delta (Δ) configuration of Metal Oxide Varistors that further reduce the equipment surge voltage exposure, provide protection redundancy, and protects your equipment from surges caused by adjacent equipment.

This 3 stage network creates a highly efficient surge reduction system that can reduce a 6,000V 3,000A surge to less than 600V.

Novaris plug-in surge filter cleans the power provided to your electrical equipment by the use of a premium low pass filter consisting of inductors and high impulse current X2 capacitors. The inductors convert high frequency energy into magnetic force and the capacitors safely bypasses any fast transient noise. The premium low pass filter combination creates a 3dB point lower than 900Hz, greatly reducing the effect of Electro-magnetic Interference (EMI), Radio Frequency Interference (RFI) and other detrimental noise on the AC line.

It comes in a robust extruded aluminium housing allowing it to be plugged in to a wall outlet using an IEC standard lead and provides a number of separate sockets to which your sensitive and valuable equipment can be powered, giving top quality filtered power with the added peace of mind that it also prevents damage from surges.

It comes with a resettable circuit breaker (not applicable for British plug type PP13 model) as well as indication lights for power on and also showing its health.

Novaris®
Global Solutions in
Lightning and Surge Protection
Engineered in Australia

tt tritone
Bespoke • Technology • Concierge
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