

Novaris[®]

Plug In Surge Filters

Installation Instructions



Thank you for choosing Novaris surge protection.

Novaris has been designing and manufacturing lightning and electrical disturbance protection for over 20 years. We specialise in the protection of power and data signalling. Our products are in use Australia wide, and internationally, and we are now world leaders in lightning and surge technology.

At our Australian headquarters we operate a full time research and development group, employing professional engineers, technical officers and drafting support staff. Our testing laboratory is capable of generating and measuring simulated lightning impulses in accordance with world power and telecommunications standards. We also have offices and distributors throughout Australia and world wide.

Novaris designs and manufactures all the products bought by you at our manufacturing locations under the ISO 9001 quality assurance system. Giving you the reassurance that your surge protection will protect your equipment.

We guarantee the quality of our products.

We stand by our products for their quality, and ingenuity. If there are any improvements you feel can make on our products, please call us, email us, or visit us. Our engineering sales team are always keen to hear from our customers.

If you require further information about our company or have a suggestion to change this product to suit your need better,

Please call us on: (+613) 6229 7233
Or email us on: info@novaris.com.au
Include in the subject line: "product improvement"

IMPORTANT: Please read these instructions carefully. Whilst straightforward, the installation of these devices is critical to their performance. Installation should only be carried out by a suitably qualified person in accordance with all relevant standards.

1. Introduction

- 1.1 These installation instructions apply to the Novaris range of plug in surge filters.



Figure 1 - PP10A2-50

- 1.2 These products are surge filters, to be installed between mains GPO and the power cord of the equipment to be protected against transient overvoltages.

They provide all-mode protection, in three stages. The first stage is metal oxide varistors, followed by an LC filter stage and a final metal oxide stage engineered to minimise the let through voltage.

2. Caution

- 2.1 Do not use near water or outdoors.
- 2.2 If the cord or the filter are damaged the filter should not be used. In the event either is damaged, the unit should be returned to Novaris for replacement.
- 2.3 Do not use the device above its rated current or power.
- 2.4 The unit should be placed in a location such that it, its cord and the equipment it is protecting do not cause any safety risk.

3. Specifications

3.1 Electrical Characteristics

Modes of Protection:	(L-N, L-PE, N-PE)
Nominal Voltage:	230V/50Hz
Maximum Continuous Voltage:	275V/50Hz
Maximum Surge Current:	19kA or 50kA
Protection Level 3kA 8/20us:	<360V
Earth Leakage Current:	<200uA
Maximum Voltage Drop:	<1% of nominal voltage
Aggregate Energy	5400 Joules

3.2 Dimensions

Two outlets:	160x140x60 mm
Four outlets:	210x140x60 mm
Six outlets:	260x140x60 mm
Eight outlets, rack mounted:	484x44x220 mm

4. Installation

- 4.1 This filter is designed to be plugged into a mains GPO. The equipment to be protected needs to be plugged into one of the devices sockets.
- 4.2 Any other cords (such as ethernet or telephone) from the equipment to be protected should be protected as well. Plug in surge filters are available with protection for communication equipment included.
- 4.3 The unit should be placed in a location such that it, its cord and the equipment it is protecting do not cause any safety risk. Risks associated include but not limited to tripping on the cord, or the unit and equipment falling on people.
- 4.4 PP10A8-19 feature a earth stud that should be electrically connected to the rack earth. Use a 6mm ring lug between the two flat washers to connect a length of wire to the unit. Do not undo the second nut.

5. Operation

- 5.1 Two LED indicators are present on all models. The 'Power' LED indicates the device has power at its input. The 'Status' LED indicates the device is operating normally.
- 5.2 A fault condition is indicated by the 'Power' LED being lit and the 'Status' LED extinguished. If this happens the device should be returned to Novaris for repair or replacement.
- 5.3 In the event the unit is overloaded, the resettable fuse on the left hand side of the unit will pop out. If this occurs, the cause of the overload should be found and removed. Once this has been performed, the fuse can be depressed to reset the unit for normal operation.



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