

## Product Datasheet

## PP10U4-50

**Plug-in Surge Filters**

Whether you are looking to protect your home theatre, HIFI, computer server, PC or communications equipment Novaris surge filters offer class leading performance and reliability. Simple and convenient to install, simply plug the product in and clean, filtered power is now at your disposal, giving you peace of mind knowing that your assets are protected.

**All Mode Protection**

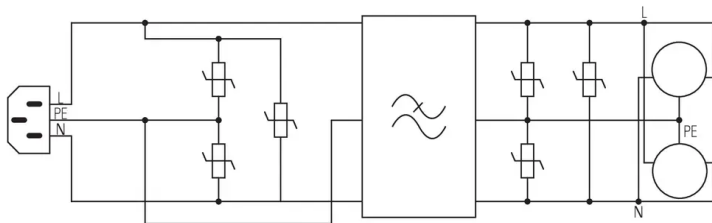
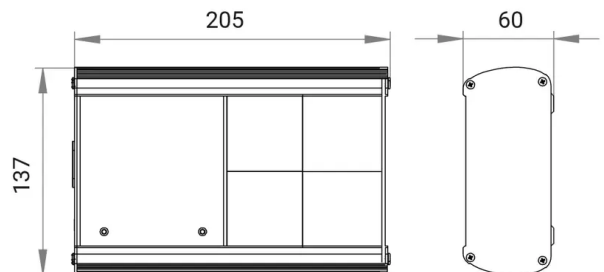
Protection is provided for all combinations of lines ensuring the maximum level of protection is achieved at all times.

**Safe Metal Enclosure**

Novaris power protection products are housed in safe, all metal enclosures. In the event of a prolonged overvoltage they will not catch fire or explode.



*Image for illustrative purposes only*

**Wiring****Dimensions**

Product Datasheet

Electrical Specifications

|                               |                                                                                   |                 |
|-------------------------------|-----------------------------------------------------------------------------------|-----------------|
| Connection type               |  | Series          |
| Modes of protection           |  | L-N, L-PE, N-PE |
| Number of ports               |                                                                                   | 2               |
| Number of phases              |  | 1               |
| Location                      |                                                                                   | Indoor          |
| Nominal voltage               | $U_0$                                                                             | 230VAC          |
| Short circuit withstand level | $I_{SSCR}$                                                                        | 25kA            |
| Maximum backup fuse           |  | 10A             |
| Earth leakage current         | $I_{PE}$                                                                          | <500μA          |

Electrical (L-N) Specifications

|                                       |           |               |
|---------------------------------------|-----------|---------------|
| Maximum load current                  | $I_L$     | 10A           |
| Maximum continuous voltage AC         | $U_c$     | 275VAC        |
| Maximum voltage drop (% of $U_0$ )    |           | <1%           |
| Maximum discharge current (8/20 μs)   | $I_{max}$ | 50kA          |
| 3dB frequency @ 50Ω                   |           | 900Hz         |
| Nominal discharge current (8/20 μs)   | $I_n$     | 20kA          |
| Lightning impulse current (10/350 μs) | $I_{imp}$ | 6.25kA        |
| Voltage protection level (3kA 8/20μs) | $U_p$     | <700V         |
| Response time                         | $t_A$     | Instantaneous |
| Voltage withstand (5s)                | $U_T$     | 335V          |

Electrical (N-PE) Specifications

|                                     |           |        |
|-------------------------------------|-----------|--------|
| Maximum continuous voltage          | $U_c$     | 275VAC |
| Maximum discharge current (8/20 μs) | $I_{max}$ | 50kA   |
| Nominal discharge current (8/20 μs) | $I_n$     | 20kA   |
| Voltage protection level (1kV/μs)   | $U_p$     | <800V  |
| Response time                       | $t_A$     | <25ns  |

Indication Specifications

|         |                                                                                     |                      |
|---------|-------------------------------------------------------------------------------------|----------------------|
| Display |  | LED Power and Status |
|---------|-------------------------------------------------------------------------------------|----------------------|

Mechanical Specifications

|                               |                                                                                     |                      |
|-------------------------------|-------------------------------------------------------------------------------------|----------------------|
| Inlet connection              |                                                                                     | IEC C14              |
| Outlet connection             |                                                                                     | 10A Universal socket |
| Number of outlets             |                                                                                     | 4                    |
| Minimum operating temperature |  | -40°C                |
| Maximum operating temperature |  | 70°C                 |
| Minimum operating humidity    |  | 5%                   |
| Maximum operating humidity    |  | 95%                  |
| Mounting method               |  | Free standing        |
| Environmental rating          |  | IP20                 |
| Enclosure material            |  | Aluminium            |
| Enclosure finish              |  | Black powdercoat     |
| Length                        |  | 137mm                |
| Width                         |  | 205mm                |
| Height                        |  | 60mm                 |
| Dimensional tolerance         |                                                                                     | 0.5mm                |

Standard Specifications

|              |                                                        |
|--------------|--------------------------------------------------------|
| IEC 61643-11 | SPD connected to low-voltage power systems - Type 1, 2 |
| AS 1768      | AC power system SPD - Cat B, A                         |
| IEEE 62.41.2 | Low voltage SPD - Type 3                               |
| UL 1449      | Low voltage SPD - Cat C                                |

Shipping Specifications

|                |                                                                                       |                    |
|----------------|---------------------------------------------------------------------------------------|--------------------|
| Weight         |  | 1.5kg              |
| Customs tariff |  | 85363000, 85363010 |

Other Specifications

|              |                                                                                       |           |
|--------------|---------------------------------------------------------------------------------------|-----------|
| Product Code |  | PP10U4-50 |
|--------------|---------------------------------------------------------------------------------------|-----------|