

LPS® PSP Series

SURGE PROTECTIVE DEVICES



Protect both DC and AC power circuits with working voltages of 12V, 24V and 48V against lightning induced surges



The LPS® PSP Series of surge protective devices (SPD) for DC and AC power circuits deploy the latest state-of-the-art technology. They provide protection for all modes against lightning induced surges successfully without impairing the system's operation or causing excessive in-line resistance.

LPS® PSP Series devices which include PSP-12, PSP-24, PSP-48 are ideal for 12 V, 24 V and 48 V power supply of instrumentation interface and equipment such as CCTV cameras, card reader controllers, intercom systems, lift controllers, fire alarm units, ect. They are specially designed with high surge capacity to suit even the most lightning prone regions in the world.

How they work

LPS® PSP Series devices provide unsurpassed performance in lightning surge protection. They deploy multi-stage protection with GDT (Gas Discharge Tube) for primary defence. They are then linked to a second stage surge attenuate component and finally to a semiconductor voltage dependant device. When a transient surge occurs, the LPS® PSP Series devices will switch to a fully conductive state to divert high current. They will then reset automatically to a non-conducting state when the current falls below the holding current.

Under excessive surge conditions, these devices will fail in shorted mode to earth to continue to keep the circuit protected. For a more comprehensive protection, we recommend that the devices are installed at both ends of a power cable especially when connecting equipment are located more than 30 metres away, in adjacent buildings or outdoors. All equipment and SPD earth must be linked to the system's common earth.

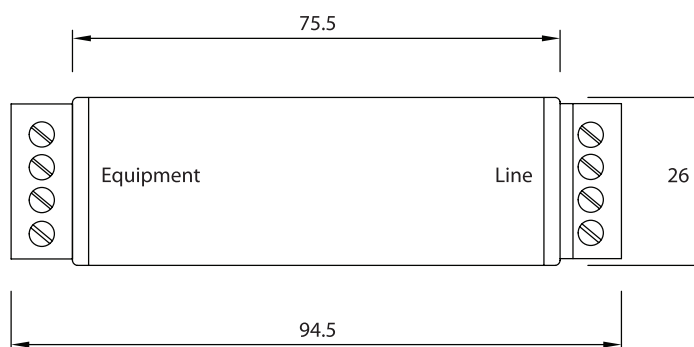
HIGHLIGHTS

- ▶ They protect DC and AC power circuits with working voltages of 12 V, 24 V and 48 V
- ▶ They employ floating Earth configuration
- ▶ They come in compact sizes for easy installation
- ▶ They each have a multi-stage hybrid protection system
- ▶ They have no interferences from different earth potential between cable ends
- ▶ They provide all modes of protection – line to line as well as line to earth

Technical Specifications

Technical Data	PSP – 12	PSP – 24	PSP – 48
Protected Wires	2		
Nominal Operating Voltage	±12 V	±24 V	±48 V
Maximum Operating Voltage	±18 V	±30 V	±65 V
Standard Clamp Voltage @ 1 mA	±22 V	±39 V	±82 V
Let-through Voltage @ IEEE C62.36 – 1994 (CCITT) / ITU-T k.20, Enhanced 6 kV @ 10/700 µs, 150 A @ 5/310 µs	46 V (Line to Line, Line to Earth)	96 V (Line to Line, Line to Earth)	164 V (Line to Line, Line to Earth)
Protection Modes	Common and Transverse Modes		
Earth Polarity	Floating		
Maximum Loading Current	5 A		
Maximum Surge Current @ 8/20 µs Total	22 kA	29 kA	
Maximum Surge Current @ 8/20 µs per Mode	11 kA	14 kA	
Maximum Conductor Size	2.5 mm ²		
Operation and Storage Temperatures	– 40° C to 70° C		
Connector interface	Pluggable Screw Terminal		
Weight	100 g		
Warranty	5 years		

Dimensions



All dimensions in millimetres

All the above specifications are subjected to changes without prior notice.
Customised products are available upon request.

Awarded the National Mark of
Malaysian Brand 2015



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