

Innovative Multi-Stage Surge Protection



Why Multi-Stage Protection are best Solution for Sophisticate Equipment?

INNOVATION
PATENT
DEVELOPMENT
MANUFACTURING



ACDC Surge Protectors

Eight (8) Stages Integrated System for Surge Protection

The innovative design and concept of Integrated Eight (8) stages Surge protection system represents a fundamental improvement of existing technology in this area that exceeds the existing international standards for surge protection (IEC62305-4; IEC61643-1; IEC60939-2) and offers new high-quality solutions and simplicity in surge protection applications.

ACDC Surge Protector represents a multi-stage surge protection system composed of 8 (eight) surge protection stages, providing protection from all forms of surges. It is form class I + II + III according to standard IEC61643-1. It also meets the standards for protection of devices from electromagnetic (radio) interference IEC60939-2.

The first part of innovation is use of four complementary different protective technologies. (Varistor, Gas Tube, Nanocrystalline and TVS technology) in one unit. The product have built in 5 patent regarding filtering, thermal protection, response times (<1nsec) and ground treatment.

The second part of innovation is simple and easy application of ACDC Surge Protectors devices applying of international protection standards (IEC 62305 & ANSI/IEEE C62.41. 1-2) that expel need of several surge protectors installed separately in each boundary protection zone (LPZ0a/b-LPZ3 & C-A). ACDC Surge Protector presents multi-stage protection system with 8 (eight) protection stages in one device that reduces surge current up to 99% (at a single point).

The complex analyses and multitude of criteria defined in lightning protection standard become the past. Design, planning and installation of surge protection is not any more reserved just for experts in this field. With application of integrated multi-stage protectors the implementation, planning and installation of Surge Protector becomes simple and easy and applicable from professions such as planners, engineers, designers, electricians...

This two innovations regarding used technology (multi-stage design) and simplest application for surge protection of devices are remarkable advantage toward other surge products which we can be find on market.

FOR **Protecting the New Electronic World**



NEW DESIGN NEW MATERIALS NEW APPROACH TO

The innovative design of ACDC Surge Protectors includes the following::

Integrated multi-stage protection system,
new filtering designs, new diagnostics
system and option for ground filtering.

Using the most recent accomplishments in
the field of Nano-Crystalline core materials

Surge Protection Technology

as filters and semiconductor TVS technology, we have developed and designed new generation of Integrated Series SURGE Protector devices with efficient cascade EMI/RFI filtering. It consisting of 8 (eight) protection stages with response time less then $< 1\text{sec}$ and high power surge handling capability.

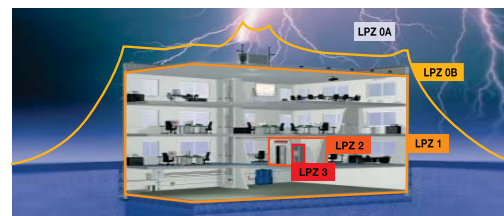
Incorporating Nano-Crystalline technology into a surge reduction filters represent a great innovation regarding reducing the dimensions of the device. Also efficiency and performance of the surge products are generally improved.



ACDC Surge Protectors present advanced solution of integrated multi-stage surge protection which consists of eight (8) protection stages that provide effective and reliable protection against surges and transients. They have built-in 5 patents and use four (4) different protection technologies. Integral part of protection is high grade of EMI / RFI filtering which represents the highest state of technology.



The concept of multi-stage surge protection system (ACDC Surge Protector) in one device expel the need of installation of several protectors in each protection zone (LPZ0a/b-LPZ3 & C-A). That avoid the needs to install surge protectors in each boundary zone which significantly reduces TOTAL costs.



These protectors have special design to protect and improve functioning of sophisticate equipment in Telecommunications, Broadcast, Medical equipment, Computers, Military, Solar Photovoltaic and Residential. The scope of applications of ACDC Surge Protectors is quite wide and refers to the protection of electrical devices against impulse surge and high-frequency (electromagnetic) disturbance, oscillation, and speaks in network power supply.



- A** Go Green Technology
- A** Green Network Power Supply
- A** Increased Energy Efficiency
- B** Increased Reliability and Life Spans
- C** New Concept of Multi-stage Surge Protection
- D** New Innovation, New Design, New Technology
- D** Standards IEC 62305-4; IEC 61643-1;

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