New surge protection device for string inverters

Due to their exposed installation sites, photovoltaic (PV) installations are at a high risk of damage due to both direct and indirect lightning strikes. The subsequent damage from these surges can cause serious damage to PV installations and expensive inverters.

DEHN has launched a new range of compact Type 2 SPD’s specifically designed for surge protection of string inverters.

The compact type 2 DEHNguard® YPV SCI arrester for photovoltaic systems has a total discharge current up to 40 kA (8/20 μs) and is available for d.c. voltages up to 1000 V. The devices are tested to the latest EN 50539-11 and have a short-circuit current rating \( I_{scpv} \) of 200 A.

The integrated fuse and SCI (short circuit interrupt) technology within the arrester provides a disconnection feature specifically developed for use on PV systems. In case of overload, the arrester is safely disconnected and the d.c. switching arc is extinguished without the need for additional external fuses.

Surge protection for information technology and signalling systems

In today’s modern world the uninterrupted use of information technology and signalling systems is taken for granted. Intelligent buildings and building management systems rely ever more on a wide variety of complex signal inputs and monitoring systems for the correct operation of the building.

Security, alarm, measuring, safety and environmental systems are all susceptible to surges, lightning discharges and over-voltages which can cause major problems to equipment resulting in physical damage and loss of service.

The compact BLITZDUCTOR® XTU combined lightning current and surge arrester from DEHN is ideally suited for protecting information and automation systems.

With its unique actiVsense technology, it automatically detects the operating voltage of the signal from 0 to 180V and optimally adjusts the voltage protection level to the operating voltage applied.

These flexible DIN rail mounted arresters are ideally suited for use in information technology, telecommunication, bus and measuring and control systems.
DEHNgate and DEHNpatch lightning current and surge arresters for CCTV and camera system cabling

In today’s modern world the uninterrupted use of information technology and video surveillance systems is taken for granted. Lightning discharges, surges and over-voltages can cause major problems to equipment resulting in physical damage and loss of service.

Lightning and surge protection is provided by the DEHNgate range. DEHNgate is a family of lightning current / surge arresters designed as a cable adapter for protecting-coaxial systems such as mobile radio stations, antenna systems and all common satellite and TV systems.

Where data transmission is over Cat 6 ethernet cabling the universal DEHNpatch surge arrester is designed for protecting Ethernet applications Cat 6 / Class E up to 250Mhz. It is ideally suited for protecting data transmission systems and video / dome cameras with integrated protection of the d.c. supply.
DEHN UK Accredited installers workshop. Isolated lightning protection systems to BS EN 62305:2011

As part of the commitment made by DEHN UK to the on-going support of its accredited installer program, a two day Isolated systems design workshop was held in Yorkshire on the 9th July 2013.

A superb venue at Bagden Hall was well attended by four major companies comprising twelve technical attendees. The location was chosen to provide an atmosphere both conducive for concentration during the day and relaxation during the evening. The weather was good to us and on the second evening everyone joined DEHN UK staff for a barbeque held in the grounds of the hall.

Each of the sessions and presentations were introduced and co-ordinated by DEHN UK technical staff who “cemented” the two days together.

Michael Knauer, DEHN systems design manager, came over from Germany for the two days to demonstrate both the theoretical and more importantly practical side of carrying out an isolated systems design. All attendees worked in teams using CAD software programs to carry out individual team designs working through the structural examples provided. When the teams had completed all examples a friendly good natured discussion and critique session followed with individual team members outlining the reasoning that went into each design and how the finished design would be practically implemented.

Thomas Dietl, DEHN product manager also joined us for the two days and gave several presentations on practical implementation and advantages of installing an isolated system. The advantages of using HVi® and HVi® power were demonstrated followed by a practical hands-on demonstration of how to fit the end terminations of this unique product.

Feedback on the workshop, both from customers and staff, has been extremely positive and discussions with all involved has given some good thoughts and ideas for follow up sessions to be held in the near future.
DEHN UK Ltd feedback form

| Contact Name: |  |
| Company Name: |  |
| Address: | Post code: |
| Tel: | Fax: |
| Email: | Web: |

Please use this space to give us feedback in regard to products/topics and services you would like to see in our newsletters:

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DEHN UK Exhibitions 2013

Elex Coventry – 19th & 20th September 2013
Solar Energy UK Birmingham – 8th, 9th & 10th October 2013
Elex Sandown – 7th & 8th November 2013

Please contact Claire Allsop on 01484 859111 for more information.

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Surge Protection
Lightning Protection
Earthing
Safety Equipment
DEHN protects.

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