

PowerChain™ solutions help

and competitive advantages

of the power system as a

strategic, integrated asset

resulting in enhanced safety,

greater reliability and energy efficiency. For more information,

visit www.eaton.com/electrical.

throughout its life cycle,

enterprises achieve sustainable

through proactive management

Eaton's Electrical Sector

is a global leader in power

distribution, power quality.

control and automation, and

monitoring products. When

engineering services, these

products provide customer

to serve the power system needs of the data center,

industrial, institutional, public sector, utility, commercial, residential, IT, mission critical, alternative energy and OEM markets worldwide.

combined with Eaton's full-scale

driven PowerChain™ solutions



# Powering business worldwide

FATON

As a global diversified power management company, we We provide integrated solutions that help make energy, help customers worldwide manage the power needed for in all its forms, more practical and accessible. buildings, aircraft, trucks, cars, machinery and businesses.

Eaton's innovative technologies help customers manage electrical, hydraulic and mechanical power more reliably, efficiently, safely and sustainably.

Powering Business Worldwide

With 2012 sales of \$16.3 billion, Eaton has approximately 103,000 employees around the world and sells products in more than 175 countries.

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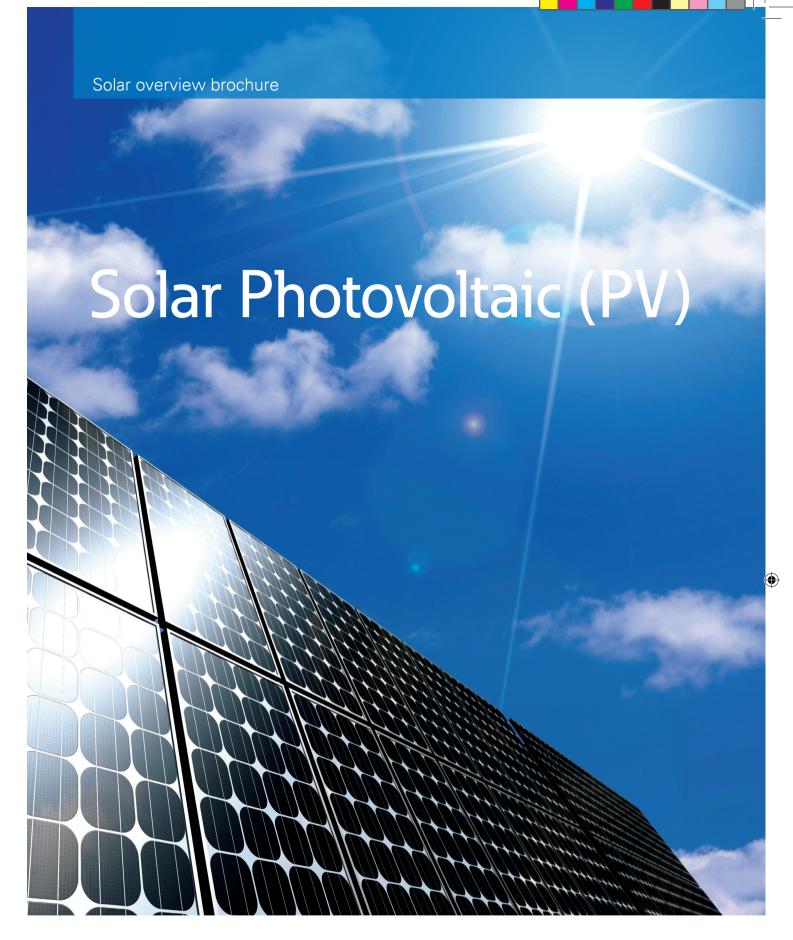
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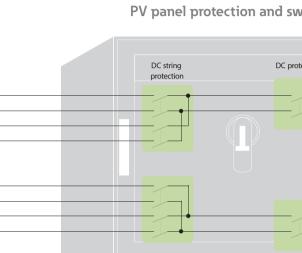




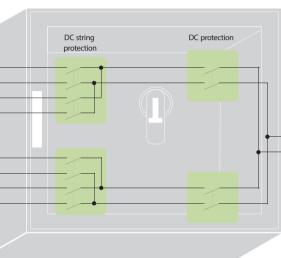
Eaton 6 page Solar Brochure 082013\_V6.indd 1

# Eaton & Bussmann by Eaton - Protecting Tomorrow's Future. Today.

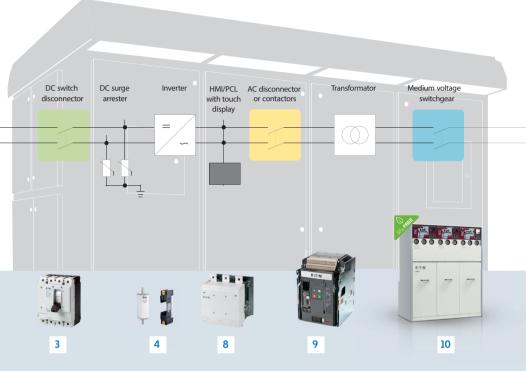
A global leader in the manufacture of electrical solutions for EPC's, integrators, and inverter makers offering the largest available range of DC and AC protection and switching.



PV panel protection and switching



Inverter and grid protection and switching













Switchgear Xiria Ring Main Unit power system's life cycle - whe The Xiria Ring Main Unit system is metal enclosed and air insulated, equipped with load-break switches

Our services integrate and optimize make sure it's aligned with business goals.

Engineering Service Capabilities

We can help keep your power



### Ferrule Photovoltaid Fuse Links, 1 to 32A, up to 1500Vdc

A range of fuse links specifically designed for the protection and isolation of photovoltaic strings.

Globally accredited to IEC 60269-6, UL 2579, CC and CSA, these fuse links are capable of interrupting low overcurrents associated with faulted PV systems (reverse current, multi-array fault).

### Modular Fuse Holders, 32A, 1000Vdc

CHPV Models, with 1000Vdc rating for use with solar gPV fuse links. Are suitable for photovoltaic applications of any size.

Tested to a wide range of standards: IEC,cULus, CSA, CCC and UR, allowing for use across global applications.





Two-pole Switch

Disconnector

The two-pole switch-disconnector

P-SOL is tested according to IEC/ EN

60947-3 and TÜV-certified.

The P-SOL is designed for installation

in customer-specific enclosures or

inverters. It's suitable for voltages

up to 1000Vdc. There are two frame

sizes (fs1 for 20A and 30A and fs2 for

63A). The two-pole switching makes

it possible to use the P-SOL for non-

earthed systems as well.

### Switch-disconnectors 160 - 1600A for up to 1500Vdc

Can be used on 1- or 2-poles. They comply with the isolation properties even for earthed IT networks.

Accessories, such as connection terminals and door coupling rotary handles enable individual installation in the most varied of distribution systems.

Auxiliary switches, undervoltage releases and remote operators facilitate signalling and automation.

Compact switch-disconnects for power inverters in switchgear systems or in separate enclosures with IP65 degree of protection.

### **XL Style Photovoltaic** Fuse Links, 50 to 630A. up to 1500Vdc

A range of XL package fuse links specifically designed to IEC 60269-6, UL 2579, UL E335324 and CCC for protecting and isolating photovoltaic array combiners and disconnects.

These fuse links are capable of interrupting low overcurrents associated with faulted PV systems (reverse current, multi-array fault).

## XL PV Bases

A range of XL package fuse bases with integral shields designed to be fitted with XL style photovoltaic fuse link.

Rated Voltage:1500Vdc Rated Current: 250, 400 and 630A Standards/Approvals: IEC 60269-1

Protection, monitoring and switching of PV arrays all wrapped up in one neat custom-built solution.

Configurable up to 24 strings, with Modbus-enabled real time monitoring the combiner box is the smart choice for systems up to 1000Vdc and 32A gPV fusing.

# **NH PV Fuse Links**

A range of NH size fuse links specifically designed to IEC 60269-6 and UL 2579 for protecting and isolating photovoltaic array combiners and DC disconnects.

These fuses also benefit from low power loss and a dual indicating feature.

### AC Contactors up to 2600A, 1000Vac

The PV Advance SPD complies with the IEC 61643-11 standard. It is specifically Ratings up to 170A are covered with designed for PV systems up to 1000Vdc four sizes and three installation widths.

direct and indirect lightning strikes and The smallest frame size as a contactor relay and contactor is an excellent compromise between The PV Heavy Duty SPD complies with the EN 50539-11 standard. It is minimum dimensions, higher physical performance capability and additional specifically designed for enhanced handling advantages.

> In addition to a comprehensive top unting auxiliary contact range, Eaton also offers side-mounted auxiliary contacts for all xStart contactors.

# NZM and IZM The circuit-breaker series NZM offers

optimum installation protection up to 1600A with four sizes.

**Air Circuit Breakers** 

up to 6300A, 690Vac

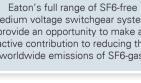
The air circuit breaker IZM, also with

four sizes, covers the power range up to 6300A. Both series are characterised by their high switching capacities and comprehensive range of accessories

every application.

Eight sizes allow you to cost-effectively engineer the required dimensions and ratings of the switch.

and provide a solution for



### medium voltage switchgear systems provide an opportunity to make an active contribution to reducing the worldwide emissions of SF6-gas.

Medium Voltage

and circuit breakers for 12kV-20kA

and 24kV-16kA networks.

They operate with a combination

comprised of circuit breakers and

electronic relays and feature high

level of operational safety and a

compact design. A variety of options

are available including an

extensible version.

www.eaton.eu www.cooperbussmann.com



**Surge Protection Devices** 

Surge Protection Devices (SPD) are

available to protect every aspect of

the PV system, from a Combiner Box

through to the Inverter.

to protect arrays and inverters from

damaging surges.

600, 1000 and 1200Vdc protection in

mono and bi-pole applications. It uses a

patented, fast-acting hybrid Short-Circuit

damages caused by DC arcs.

Interrupting (SCI) technology to prevent









