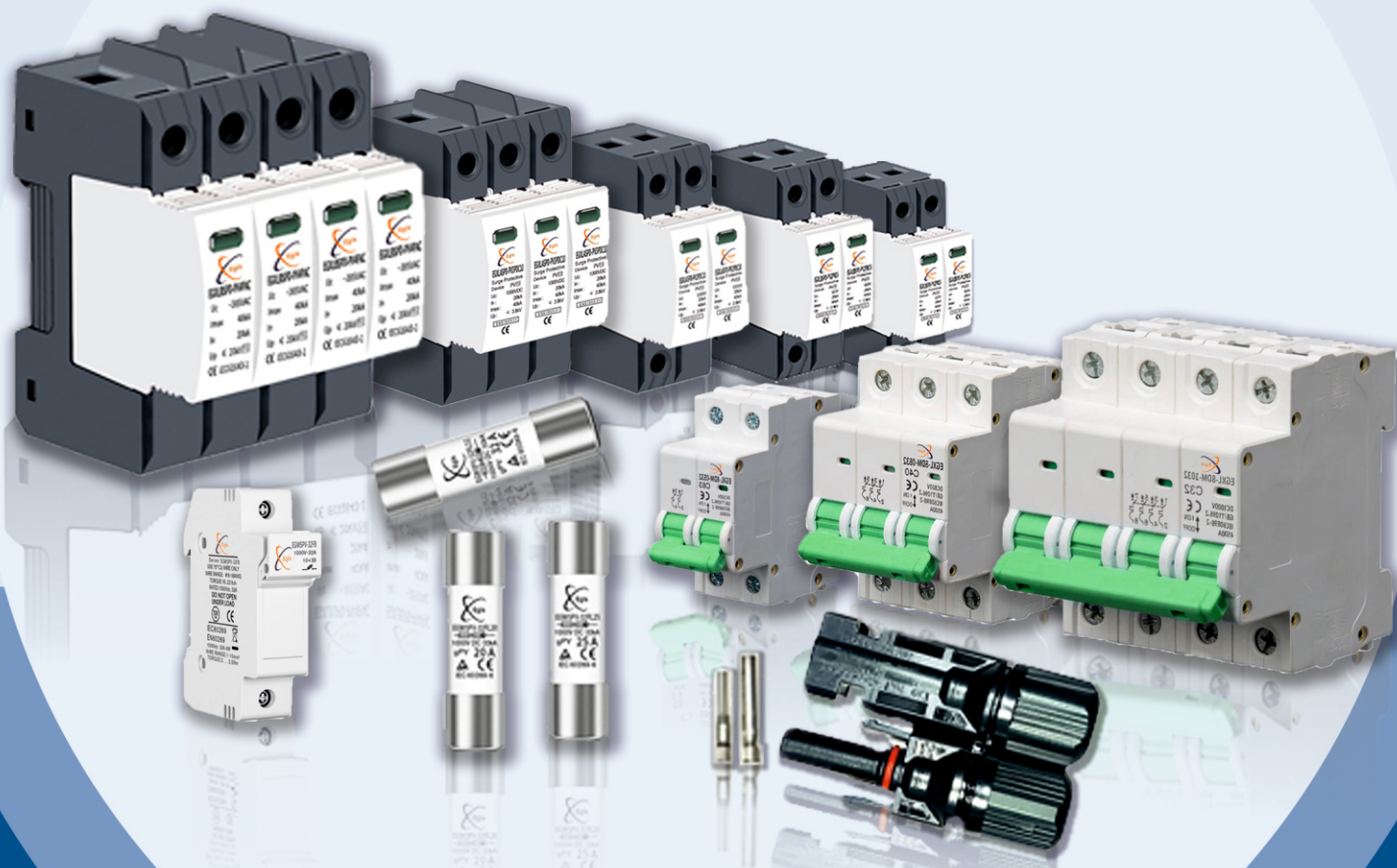




Egis

VOLTAIRE RELAXATION

TM



Surge Protection Devices, MCB,
Fuses & Accessories

PRODUCTS CATALOGUE

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Solar DC MCB –
Solar DC SPD (Type A-B) –
Solar AC SPD (Type A-B) –
Solar PV Fuse –
DC MC-4 Series Connectors –



Application

SUPI(D, C, B) 5 series surge protection device (in short: SPD, alias; surge suppressor, surge arrester) is suitable for TN-S, TN-C-S, TT IT etc. power supply system of AC 50/60Hz, <380V, installed on the joint of LPZ1 or LP22 and LP23, it's designed according to IEC61643-1, GB18802.1, it adopts 35mm standard rail, there is a failure release mounted on the module of surge protection device. When the SPD fails in a breakdown for over-heat and over-current, the failure release will help electric equipments separate from the power supply system and give the indication signal, green means normal, red means abnormal, it also could be replaced for the module when has operating voltage.

Product Features

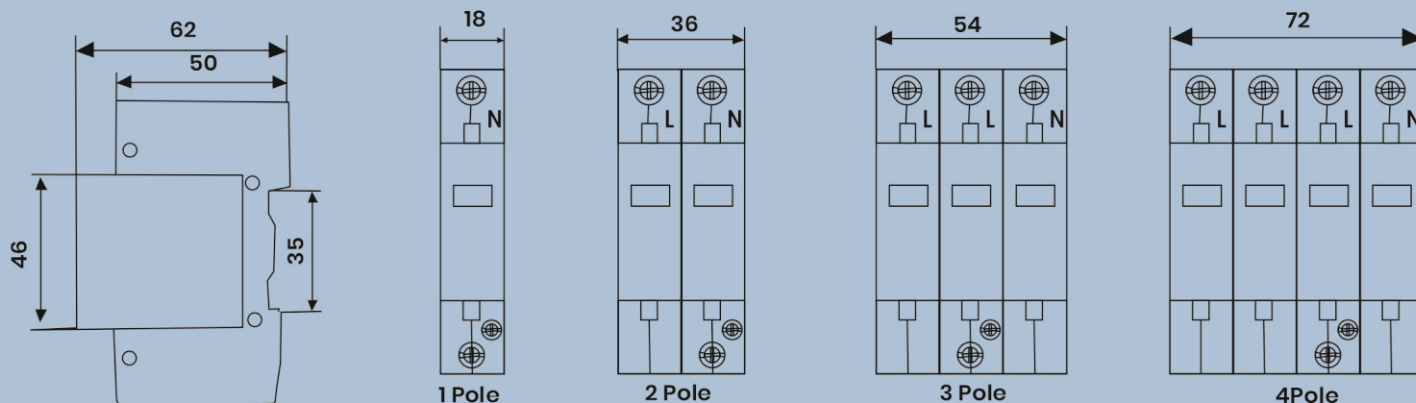
- Could be replaced for the module not need power off.
- Maximum current of endure the lightning stroke 40kA (8/20us).
- Time of response <25ns;
- The color of visible window shows operating status, green means normal, red means abnormal.

Product Features



Technical Parameters						
Protection Level B,C,D Grade	D.C.B					
Rated Operating Voltage Un (V~)	380V/220V					
Maximum Continuous Operating Voltage Un (V~)	275V	275V	385V	385V	385V	420V
Voltage Protection Level Up (V~) kV	≤2.0	≤2.0	≤2.0	≤2.0	≤2.2	≤2.8
Nominal Discharge Current in us kA	10	20	20	30	40	60
Maximum Discharge Current Imax us kA	20	40	40	60	80	100
Response Time (ns)	<25					
Test Standard	IEC61643.1, GB18802.1					
Operating Environment(centigrade)	-40°C~+85°C					
Max Connection Line	35mm ² hard wire/35mm ² strand wire copper line					
Recommended Connection Line	16mm ² hard wire/25mm ² strand wire copper line					
Installation	Standard Rail 35mm					
Material of Outer Covering	Burning-proof Nylon					

Dismantling



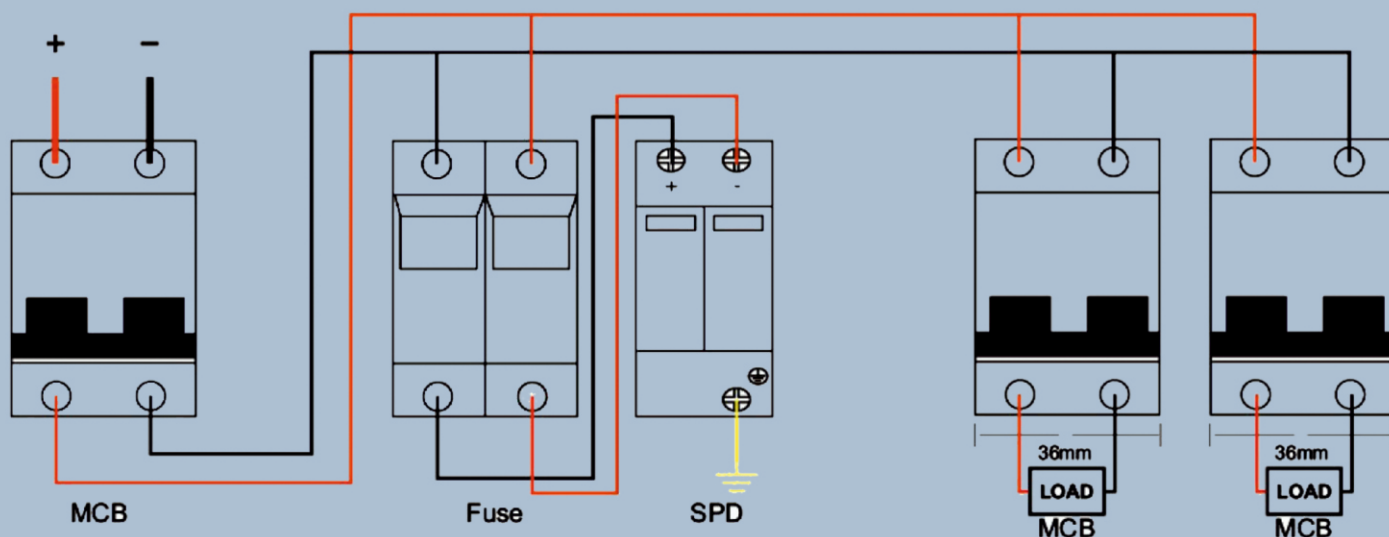
Application

Surge protective device, protect against lightning surge voltages in solar system (photovoltaic power supply system). These units must be installed in parallel on the dc networks to be protected and provide common and different models protection. Its installed location are recommended at both ends of the dc power supplyline (solar panel side and inverter/converter side), especially if the line routing is external and long. High energy MOVs equipped with specific thermal disconnectors and related failure indicators.

Specifications

EGXLDSPD-PV (A-B) Series	EGXLDSPD-PV (A-B)						
PVDC-specific	EN61643-31						
Pole	2P	2P	2P	2P	3P	3P	3P(COSTOMIZED)
Electrical parameter							
Classified test	II	II	II	II	II	II	II
Uoc max (VDC)	500	600	800	1000	1000	1200	1500
I	500	600	800	1000	1000	1200	1500
In (8/20)us (kA)	20	20	20	20	20	20	20
I _{ma} x (8/20)us (kA)	40	40	40	40	40	40	40
Up (kV)	2.8	2.8	3.2	3.8	3.8	3.8	5.5

Wiring Diagram



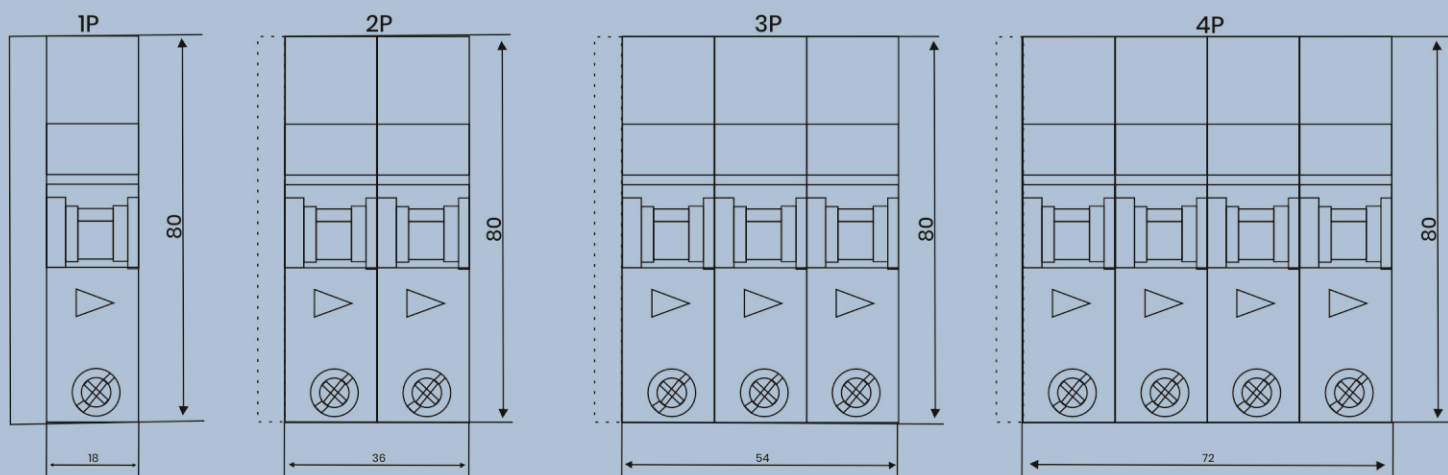
Application

EGXL-8DM DC breaker supplementary protectors are designed to provide overcurrent protection within appliances or electrical equipment, where a branch circuit protection is already provided or not required. Devices are designed for direct current (DC) control circuit applications.

Specifications

EGXL-8DM Series Surge Protector		EGXL-8DM				
Frame Degree Rated Current (A)		63				
Pole		1P	2P	3P	4P	2P(CUSTOMIZED)
Rated Operating Voltage (V DC)		250	500	750	1000	600/800
Rated Insulation Voltage Ui (VDC)		2P 800V/4P 1200V				
Rated Current In (A)		3,6,10,16,20,25,32,40,50,63A				
Rated Impact Voltage Uimp (kV)		4				
Ultimate Breaking Capacity Icu (kA)		6				
Run Breaking Capacity Ics (%Icu)		75%				
Curve Type		C				
Trip Type		Thermal-magnetic				
Mechanical	Actual average value	9700				
	Standard value	9700				
Electric	Actual average value	300				
	Standard value	300(accord to TUV standard)				

Dimensions(mm)





Application

A range of 10x38mm fuse links specifically designed for protecting photovoltaic strings. These fuse links are capable of interrupting low overcurrents associated with faulted photovoltaic string arrays (reverse current, multi-array fault).

Specifications

Pole	1P
Rated Voltage U_e (V DC)	1000
Rated Current I_n (A)	1,2,3,4,5,6,8,10,12,15,16,20,25,30,32
Biggest Block Ability(KA)	20
The Most High Power Consumption(W)	2.5

Structural Characteristics

- According to IEC60269-1
- Rated Current : 1-32A
- Rated Voltage : DC 1000V
- Rated Breaking Capacity : DC 20KA
- Operating Class gPV For Solar Protection

PV Fuse Description

- Photovoltaic system fuse accord with UL248-1 standard.
- Photovoltaic battery dc fuse designed to used for photovoltaic (PV) system.
- Main effect is to protect the solar panels. Solar panels points in effective condition is broken.
- Fault light cells break points at the same time, does not affect other normal work of light from the stack.
- Technical Data Rated coltage: DC 1000V Breaking capacity: 25KA Function level: PV.

EGWSPVCCT1M4

DC MC-4 Solar Connector

Application

- Simple on-site processing.
- Acomodates PV cable with different insulation diameters.
- Mating safety provided bykeyed housings.
- Multiple plugging and unplugging cycles.
- High current carrying capacity.

Technical Parameters

Order NO.	Part P/N		Cable special	
	Connector	Terminal	Conductor size(mm ²)	CableOD(\$Dmm)
WSPVCC-1	WSPVCC-M	WSPVCC-T1	AWG 14(2.5 mm ²)	φ 4.5- φ 48.5
WSPVCC-2		WSPVCC-T2	AWG12(4.0 mm ²)	
WSPVCC-3		WSPVCC-T3	AWG10(6.0 mm ²)	
WSPVCC-4	WSPVCC-F	WSPVCC-T4	AWG14(2.5 mm ²)	φ 4.5- φ 48.5
WSPVCC-5		WSPVCC-T5	AWG12(4.0 mm ²)	
WSPVCC-6		WSPVCC-T6	AWG10(6.0 mm ²)	

EGWSPVT2

2 TO 1 MC 4 SOLAR CONNECTORS



Application

- Simple on-site processing.
- Accommodates PV cable with different insulation diameters.
- Mating safety provided by keyed housings.
- Multiple plugging and unplugging cycles.
- High current carrying capacity.

Technical Parameters

Type	EGWSPVT2
Rated Current	30A
Rated Voltage	1000V DC
Test Voltage	6000V(50Hz, 1min)
Overvoltage Category/Pollution Degree	CAT III /2
Contact Resistance Of Plug Connector	1mΩ
Contact Material	Copper, Tin-plated
Insulation Material	PA/PRO
Degree Of Protection	IP2*/IP67
Flame Class	UL94-VO
Safety Class	II
Insertion Force	50N
Withdrawal Force	> 50N
Temperature Range	-40°C~+110°C



EGWSPVT3

3 TO 1 MC 4 SOLAR CONNECTORS

Structural Characteristics

- Simple on-site processing.
- Accommodates PV cable with different insulation diameters.
- Mating safety provided by keyed housings.
- Multiple plugging and unplugging cycles.
- High current carrying capacity.

Specification

Type	EGWSPVT3
Rated current	40A
Rated voltage	1000V DC
Test voltage	6000v(50Hz, min)
Over voltage Category/Pollution degree	CAT II/2
Contact resistance of plug connector	1mΩ
Contact material	copper, Tin-plated
Insulation material	PPO/PC
Degree of protection	IP2*/IP65
Flame class	UL94-VO
Safety class	II
Insertion force	≤50N
withdrawal force	≥50N
Temperature range	-40 C~+110 C
Suitable cable	2.5-6.0mm ²



EGWSPVT4

4 TO 1 MC 4 SOLAR CONNECTORS



Structural Characteristics

- Simple on-site processing.
- Acomodates PV cable with different insulation diameters.
- Mating safety provided bykeyed housings.
- Multiple plugging and unplugging cycles.
- High current carrying capacity.

Specification

Type	EGWSPVT4
Rated current	40A
Rated voltage	1000V DC
Test voltage	6000v(50Hz, min)
Over voltage Category/Pollution degree	CAT II/2
Contact resistance of plug connector	1mΩ
Contact material	copper, Tin-plated
Insulation material	PPO/PC
Degree of protection	IP2*/IP65
Flame class	UL94-VO
Safety class	II
Insertion force	≤50N
withdrawal force	≥50N
Temperature range	-40 C--+110 C
Suitablecable	2.5-6.0mm ²



EGWSPVY2

2 TO 1 MC 4 SOLAR CONNECTORS

Structural Characteristics

- Simple on-site processing.
- Acomodates PV cable with different insulation diameters.
- Mating safety provided bykeyed housings.
- Multiple plugging and unplugging cycles.
- High current carrying capacity.

Specification

Type	EGWSPVY2
Rated current	30A
Rated voltage	1000V DC
Test voltage	6000v(50Hz, min)
Over voltage Category/Pollution degree	CAT II/2
Contact resistance of plug connector	1mΩ
Contact material	copper, Tin-plated
Insulation material	PPO/PC
Degree of protection	IP2*/IP65
Flame class	UL94-VO
Safety class	II
Insertion force	≤50N
withdrawal force	≥50N
Temperature range	-40 C--+110 C
Suitablecable	8cm



Structural Characteristics

- Simple on-site processing.
- Acomodates PV cable with different insulation diameters.
- Mating safety provided bykeyed housings.
- Multiple plugging and unplugging cycles.
- High current carrying capacity.

Specification

Type	EGWSPVY3
Rated current	40A
Rated voltage	1000V DC
Test voltage	6000v(50Hz, min)
Over voltage Category/Pollution degree	CAT II/2
Contact resistance of plug connector	1mΩ
Contact material	copper, Tin-plated
Insulation material	PPO/PC
Degree of protection	IP2*/IP65
Flame class	UL94-VO
Safety class	II
Insertion force	≤50N
withdrawal force	≥50N
Temperature range	-40 C--+110 C
Suitablecable	8cm

EGWSPVY4

4 TO 1 MC 4 SOLAR CONNECTORS

Structural Characteristics

- Simple on-site processing.
- Acomodates PV cable with different insulation diameters.
- Mating safety provided bykeyed housings.
- Multiple plugging and unplugging cycles.
- High current carrying capacity.

Specification

Type	EGWSPVY4
Rated current	40A
Rated voltage	1000V DC
Test voltage	6000v(50Hz, min)
Over voltage Category/Pollution degree	CAT II/2
Contact resistance of plug connector	1mΩ
Contact material	copper, Tin-plated
Insulation material	PPO/PC
Degree of protection	IP2*/IP65
Flame class	UL94-VO
Safety class	II
Insertion force	≤50N
withdrawal force	≥50N
Temperature range	-40 C--+110 C
Suitablecable	8CM

Surge Protection Devices, MCB,
Fuses & Accessories



SURGE PROTECTIVE DEVICES

- Solar DC Miniature Circuit Breaker (MCB DC)
- Solar DC Surge Protective Device (Type A-B)
- Solar AC Surge Protective Device (Type A-B)
- Solar PV Fuse
- DC MC-4 Solar Connector

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