



PSM-40/1000 PV



PSM3-40/1500 PV IR



PSC3-12.5/1000 PV IR



PSM-40/230

Surge protection devices for photovoltaic (PV) installations

Due to their location solar panels and in many cases the inverters are connected to, are exposed to and particularly prone to direct or indirect lightning strikes. As PV systems are directly connected to the electrical networks of buildings, surge protection is essential.

- Clear lifetime indication (*on front face*) and optional remote (IR) end of life signalling contact
- Meets all current international standards (IEC 61643 / IEC 62305, etc.)
- Plug-in cartridges for quick and easy replacement of damaged ones
- Suitable for all types of applications: residential, commercial and industrial

type	(10/350 μ s) L-N (Iimp)	(8/20 μ s) L-L (Imax)	max. PV voltage (Ucpv)	voltage protection (Up)	poles	config.	width in 18 mm
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Type 2 / Class II PV surge protection device

Suitable for protection where no external protection is installed. Protection should be installed on the DC as well AC side of an installation.

- High discharge capacity tested with an 8/20 μ s waveform: 40kA per phase

1000 VDC PV surge protection device

PSM3-40/1000 PV	–	40kA	1060 V	\leq 4.0kV	3	L+/L-	3
PSM3-40/1000 PV IR	–	40kA	1060 V	\leq 4.0kV	3	L+/L-	3

1500 VDC PV surge protection device

PSM3-40/1500 PV	–	40kA	1500 V	\leq 5.0kV	3	L+/L-	3
PSM3-40/1500 PV IR	–	40kA	1500 V	\leq 5.0kV	3	L+/L-	3

Type 1+2 / Class I+II PV surge protection device (combined in a single device)

Suitable for first level of protection with incoming power supply panels and areas with greater exposure to lightning.

- Multi-pole, modular surge arrester for use in PV systems
- Capable of protecting equipment from direct lightning strikes
- High discharge capacity 10/350 μ s: 12.5 kA per phase

1000VDC PV surge protection device

PSC3-12.5/1000 PV	12.5kA	65kA	1170 V	< 3.6kV	3	L+/L-	3
PSC3-12.5/1000 PV IR	12.5kA	65kA	1170 V	< 3.6kV	3	L+/L-	3

(IR) last two digits - with signalling contacts for remote indication/monitoring of devices

Spare replacement plug-in cartridges for surge arrestors

type	(10/350 μ s) L-N (Iimp)	(8/20 μ s) L-L (Imax)	max. PV voltage (Ucpv)	voltage protection (Up)	for surge protector
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Class 2

PSM-20/230	–	20kA	320 V	< 1.4kV	PSM1/2/4-20 phase
PSM-40/230	–	40kA	275 V	< 1.3kV	PSM1/2/4-40 phase
PSM-30/750	–	30kA	750 V	< 3.0kV	PSM1/3-30 phase
PSM-20N	–	20kA	255 V	< 1.5kV	PSM1/2/4-20 neutral
PSM-40N	–	40kA	255 V	< 1.5kV	PSM1/2/4-40 neutral

Class 1+2

PSC 12.5/230	12.5kA	65kA	275 V	< 1.3kV	PSC2/4-12.5 phase
PSC 25/230	25kA	100kA	275 V	< 1.5kV	PSC2/4-25 phase
PSC 25N	25kA	65kA	255 V	< 1.5kV	PSC2-12.5 neutral
PSC 50N	50kA	65kA	255 V	< 1.5kV	PSC4-12.5 neutral
PSC 50N2	50kA	65kA	255 V	< 1.5kV	PSC2-25 neutral
PSC 100N	100kA	100kA	255 V	< 1.5kV	PSC4-25 neutral

For PV surge arrestors 1000 VDC

Class 2					
PSM-40/1000 PV	–	40kA	1170 V	< 2.0kV	PSC3-40 PV
Class 1+2					
PSC 12.5/1000 PV	12.5kA	65kA	1170 V	< 1.8kV	PSC3-12.5 PV