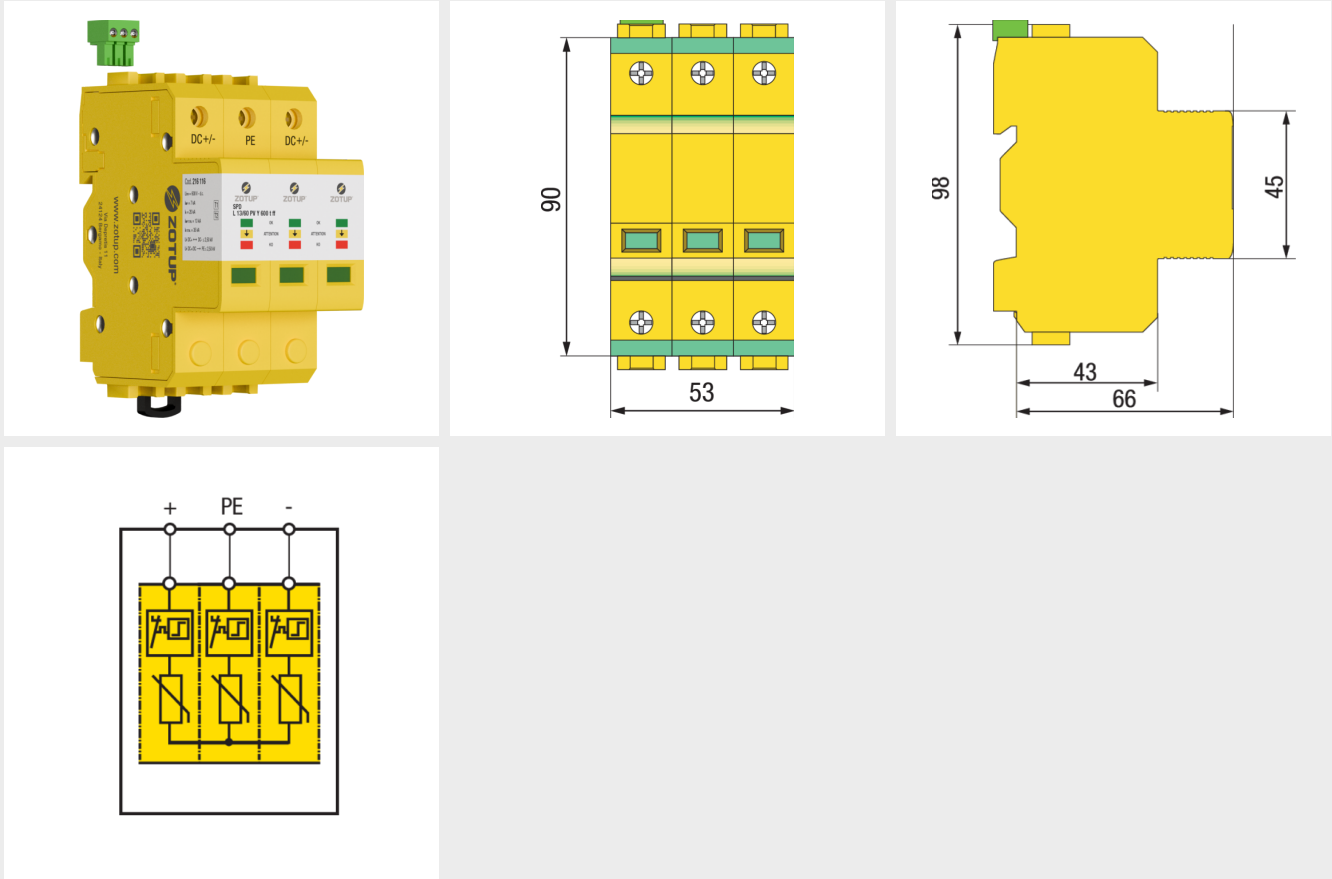


SPD FOR PHOTOVOLTAIC SYSTEMS ON THE DC SIDE
ZOTUPLIMITERPV | L 13/60 PV Y 600 t ff



Technical Data

L 13/60 PV Y 600 t ff is a voltage limiting SPD for photovoltaic systems providing three modes of protection, typically installed close to the PV inverter, close to the PV generator and/or in the junction box, with the following features and benefits:

Features and benefits

- Impulse test classification: Type 1 and Type 2 according to IEC 61643-31 Ed.1 (2018-01) and EN 61643-31 (2019-05);
- High short circuit current rating without backup protection $I_{scpv} = 1000 \text{ A}$ according to IEC 61643-31;
- High short circuit current rating without backup protection, additionally tested based on IEC/EN 61643-11;
- Three colour Status Indicator with progressive indication of remaining performance;
- Upon request the L 13/60 PV Y ... ff type SPD can be supplied with other ratings for discharge current and Max. Continuous Operating Voltage.



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Code		216 116
Maximum Continuous Operating DC Voltage for PV applications	Ucpv	600 V dc
Modes of protection		3
Type according to IEC 61643-11 Ed.2 (2025) and EN IEC 61643-11 (2025)		T1 e T2
Impulse discharge current (10/350 µs) (all modes)	limp	7 kA
Nominal discharge current (8/20 µs) (all modes)	In	20 kA
Total discharge current (8/20 µs) DC+ and DC- → PE	Itotal	13 kA
Total nominal discharge current of DC+ and DC- → PE	Itotal 8/20	35 kA
Maximum discharge current (8/20 µs)	Imax	70 kA
Voltage protection level at a discharge current of: 1 kA	Up	≤ 1,60 kV
Voltage protection level at a discharge current of: 5 kA	Up	≤ 1,90 kV
Voltage protection level at a discharge current of: 10 kA	Up	≤ 2,10 kV
Voltage protection level at a discharge current of: 15 kA	Up	≤ 2,40 kV
Voltage protection level at a discharge current of: 20 kA	Up	≤ 2,50 kV
Response time	ta	≤ 25 ns
End of life		OCM (open-circuit mode)
Short-circuit current rating (acc. to IEC 61643-31)	Iscpv	1000 A
Short circuit current rating (based on IEC/EN 61643-11)	Iscrr	500 A
Follow current interrupt rating	lfi	NFC No Follow Current®
Status indicator (indication of disconnecter operation)		3 colours with progressive performance indication
Operating temperature range / Humidity		-40 ... +80 °C (extended) / 5% ... 95%
Terminal - Conductor size (double clamps for V-connection on L-terminals)		4-35 mm ² flexible / 4-50 mm ² semi rigid
Mounting		indoor, 35 x 7,5 mm top hat DIN rail IEC/EN 60715
Case material / Flammability grade		BMC / V-0 according to UL 94
Degree of protection	IP	2/20 (built-in)
Approximate weight		420 g
Dimension: width		53 mm (3 modules)
Remote signal contact		potential-free changeover contact
Terminal - conductor size for remote signal contact		max. 1,5 mm ² flexible
Switching capacity remote signal contact		ac: 250 V / 0,5 A - dc: 125 V / 0,2 A; 75 V / 0,5 A