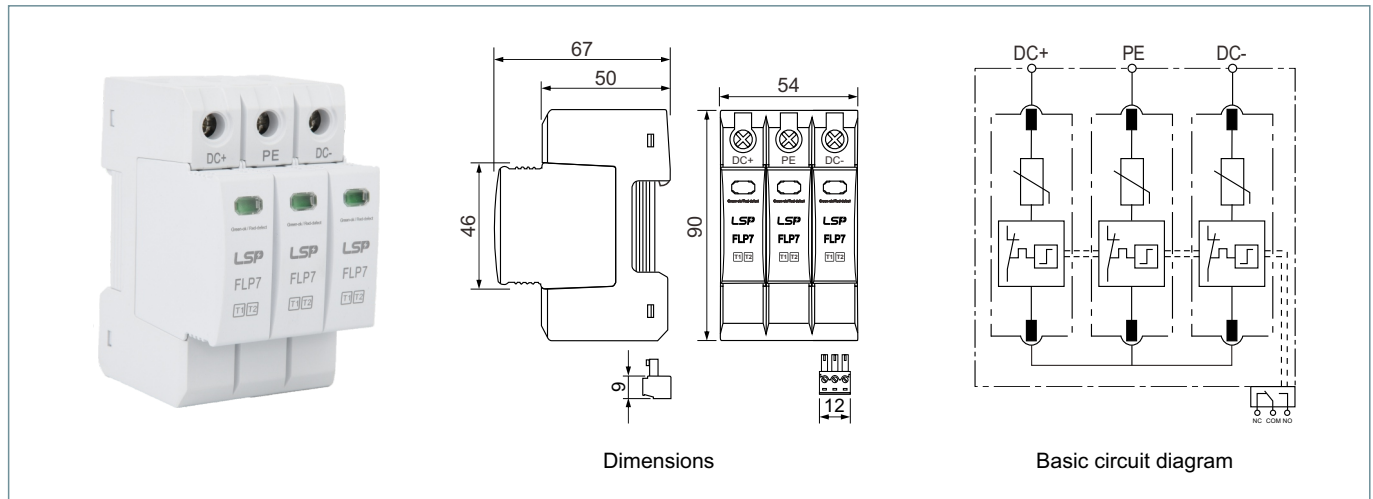


**FLP7-PV1000/3**  
**FLP7-PV1000/3S**

Pluggable modular multi-pole PV SPD type 1 and type 2 lightning current surge arrester for use in photovoltaic systems

- With remote signaling contact for monitoring device (floating changeover contact) (S)
- For installation in the DC circuits of solar photovoltaic systems, string box, inverter
- Mode of Protection: (DC+) - PE, (DC-) - PE, (DC+) - (DC-)
- Surge Ratings:  $I_{total} = \text{up to } 12,5 \text{ kA (10/350}\mu\text{s)}$ ,  $I_{total} = \text{up to } 50 \text{ kA (8/20}\mu\text{s)}$
- EU Category: Type 1 + Type 2
- Protective Elements: High Energy MOV



| Type   | FLP7-PV1000/3   | FLP7-PV1000/3S  |
|--|---|---|
| SPD according to EN 50539-11:2013  | type 1 + type 2   | type 1 + type 2   |
| Maximum operating voltage $U_{CPV}$  | $\leq 1000 \text{ V}$                                     | $\leq 1000 \text{ V}$                                     |
| Short-circuit current rating $I_{SCPV}$  | 200 A   | 200 A   |
| Lightning impulse current (10/350 $\mu\text{s}$ ) [(DC+/DC-)-> PE] $I_{total}$ | 12,5 kA   | 12,5 kA   |
| Total discharge current (8/20 $\mu\text{s}$ ) [(DC+/DC-)-> PE] $I_{total}$     | 50 kA   | 50 kA   |
| Lightning impulse current (10/350 $\mu\text{s}$ ) $I_{imp}$                    | 7 kA  | 7 kA  |
| Nominal discharge current (8/20 $\mu\text{s}$ ) $I_n$                          | 20 kA   | 20 kA   |
| Maximum discharge current (8/20 $\mu\text{s}$ ) $I_{max}$                      | 40 kA   | 40 kA   |
| Voltage protection level $U_p$   | 4,0 kV  | 4,0 kV  |
| Response time $t_a$  | 25 ns   | 25 ns   |
| Range of operating temperatures $T_u$  | -40/+80°C   | -40/+80°C   |
| Operating state / fault indication   | green / red   | green / red   |
| Number of ports  | 1   | 1   |
| Cross-sectional area (min.)  | 1.5 mm <sup>2</sup> solid /flexible                       | 1.5 mm <sup>2</sup> solid /flexible                       |
| Cross-sectional area (max.)  | 35 mm <sup>2</sup> stranded / 25 mm <sup>2</sup> flexible | 35 mm <sup>2</sup> stranded / 25 mm <sup>2</sup> flexible |
| For mounting on  | 35 mm DIN rail acc. to EN 60715                           | 35 mm DIN rail acc. to EN 60715                           |
| Enclosure material   | thermoplastic   | thermoplastic   |
| Place of installation  | indoor installation                                       | indoor installation                                       |
| Degree of protection   | IP 20   | IP 20   |
| Capacity   | 3 module(s), DIN 43880                                    | 3 module(s), DIN 43880                                    |
| Approvals  | CE  | CE  |
| Type of remote signalling contact  | –   | changeover contact  |
| a.c. switching capacity  | –   | 250V / 0.5 A  |
| d.c. switching capacity  | –   | 250V / 0.1 A; 125 V / 0.2 A; 75 V / 0.5 A                 |
| Cross-sectional area for remote signalling terminals                           | –   | max. 1.5 mm <sup>2</sup> solid / flexible                 |