

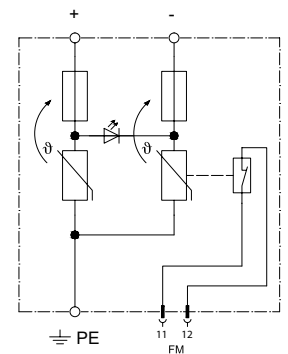
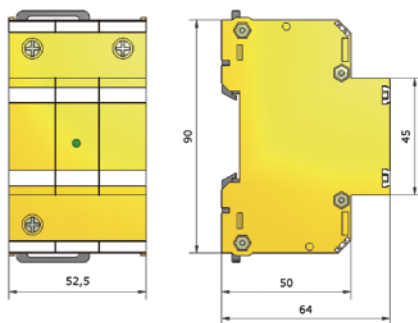
## Arresters for Photovoltaic Installations

### Protection of PV Installations

#### PowerPro PV 1000

Two-pole dc combined modular arrester, class I and II.

- When applied in PV installations, these devices are placed inside the connection box of the solar generator and on the dc side of the inverter
- Optional remote signalling contact (FM)



Basic circuit diagram

Technical Data	PP PV 1000
PV voltage (UocSTC)	1000V=
Max. continuous direct voltage (Uc)	1100V=
Protection level at In (8/20 μs) (Up)	≤ 4.2 kV
Protection level at 5 kA (Up)	≤ 3.5 kV
Response time (tA)	≤ 25 ns
Lightning impulse current (10/350 μs) per pole (Iimp)	12.5 kA
Max. impulse discharge current (8/20 μs) (In)	40 kA
Operating temperature range (TU)	-40 – +80 °C
Min. conductor cross section	10 mm <sup>2</sup>
Max. conductor cross section	35 mm <sup>2</sup> stranded / 25 mm <sup>2</sup> fine-stranded
Max. connection torque for terminals	4.5 Nm
Enclosure material / colour	polycarbonate (halogen-free) UL94-V0 / yellow
Degree of protection (IEC EN 60529)	IP 20
Mounting on	DIN rail 35 mm according to DIN EN 50 022
Net weight / pc	442 g

Order Data	
Product	PP PV 1000
Ordering part no.	37 44 02

Technical Data and Order Data	PP PV 1000/FM
FM contact / contact type	break contact
Switching capacity	250 / 2 V/A
Product	PP PV 1000/FM
Ordering part no.	37 44 03

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