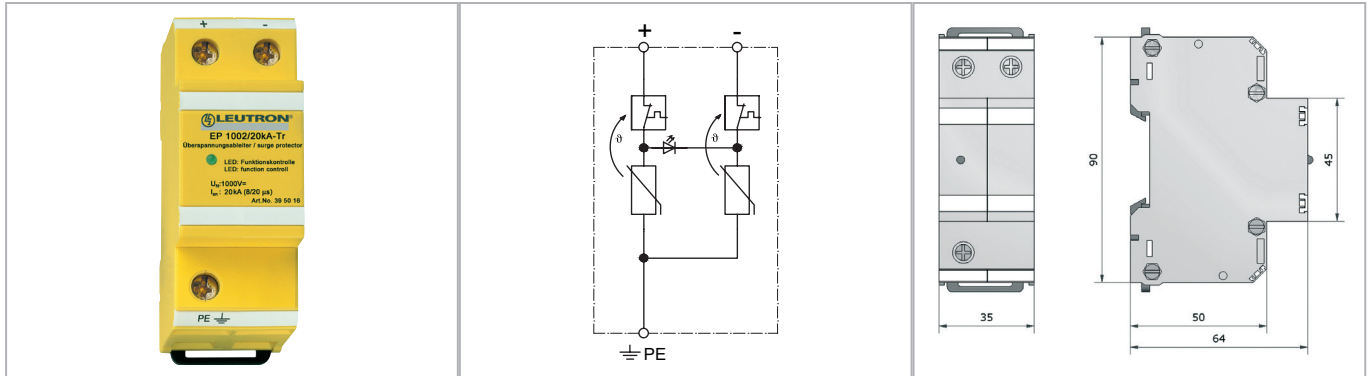


# Datasheet

## Surge protection of power supply

### Surge arresters for Photovoltaic Installations



These devices (class II) provide overvoltage protection for the dc part in PV installations. When used in PV-installations, they are installed in the generator connection box and on the DC side of the AC converter.

- Mounting on 35 mm DIN rail (EN 60715)
- Degree of protection according to IEC EN 60529: IP 20
- Inflammability class according to UL 94 V0
- EAC certification

Technical Data		EP 1002/20kA-Tr
IEC category		Type 2 / class II
PV voltage	UocSTC	1000 V=
Max. continuous operating voltage DC	Uc	1000 V=
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
Nominal discharge current (8/20 µs)	In	20 kA
Max. impulse discharge current (8/20 µs) line to PE	Imax	40 kA
Max. allowed fuse or back-up fuse		125 A gG
Operating temperature range	TU	-40 - +80 °C
Min. conductor cross section at terminals		10 mm <sup>2</sup> solid/flexible
Max. conductor cross section (L1, L2, PE)		50 mehrdr./35 feindr. mm <sup>2</sup>
Enclosure material / colour		polycarbonate (halogen-free) UL 94-V0 / yellow
Casting compound		Polyurethane
Degree of protection (IEC EN 60529)		IP 20
Mounting on		35 mm DIN rail (DIN EN 60715)
Max. connection torque for terminals		4,0 Nm

Order Data	
Product	EP 1002/20kA-Tr
Article-No.	39 50 16