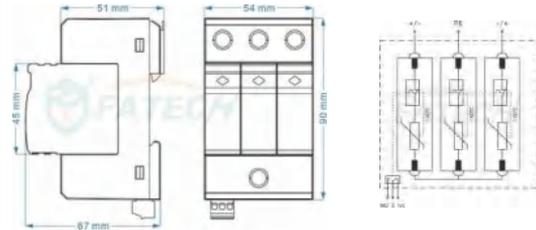
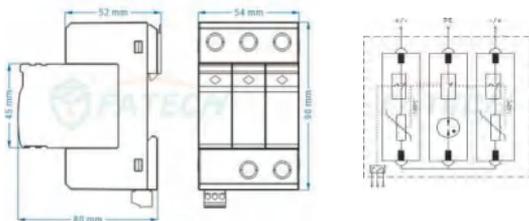


Model No.	FV20C/3-1000PVS
SPD protection conforms to EN50539-11/IEC61643-31	Type 2
SPD installation type conforms to EN50539-11/IEC61643-31	Class II
Protection level conforms to DIN VDE0675-6	C
Type of Network	Photovoltaic systems DC side
Protection mode	(+/-)-PE, (-/+)-PE, (+/-)-(-/+)
Nominal Voltage $U_{ocdc}$	1000 Vdc
Maximum continuous operating voltage for PV application $U_{opv}$	1200 Vdc
Continuous operating current $I_{opv}$	<20 $\mu$ A
Residual current $I_{rc}$	$\leq 20 \mu$ A dc $\leq 500 \mu$ A ac
Standby power consumption $P_c$	$\leq 25$ mVA
Maximum discharge current (8/20 $\mu$ s) $I_{max}$	40 kA
Nominal discharge current (8/20 $\mu$ s) $I_n$	20 kA
Short-circuit current rating $I_{scpv}$	10 kA
Voltage protection level $U_p$	$\leq 3,6$ kV
Isolation resistance $R_{isol}$	> 1000 M $\Omega$
Response time $t_a$	$\leq 25$ ns
Remote control contact	YES
Disconnection indicator	Mechanical indicator (Green: OK, Red: Replace)
Minimum area of connecting cable	4 mm <sup>2</sup>
Maximum area of connecting cable	25 mm <sup>2</sup>
Installation location	Inside
Mounting type	35mm DIN rail acc. to EN 60715
Color	Gray
Degree of protection	IP20
Housing material	UL94V-0
Ambient temperature	-40°C ~ +80°C
Altitude	$\leq 2000$ m (amsl (above mean sea level))
Permissible humidity	30%~90%

## DC Surge protective device for PV system Model No.: FV20C/3-1000PVS



## DC Surge protective device for PV system Model No.: FV12.5B+C/2+NPE-1000PVNS



Model No.	FV12.5B+C/2+NPE-1000PVNS
SPD protection conforms to EN50539-11/IEC61643-31	Type 1+2
SPD installation type conforms to EN50539-11/IEC61643-31	Class I-II
Protection level conforms to DIN VDE0675-6	B+C
Type of Network	Photovoltaic systems DC side
Protection mode	(+/-)-PE, (-/+)-PE
Nominal Voltage $U_n$	1000 Vdc
Maximum continuous operating voltage for PV application $U_{opv}$	1000 Vdc(+/-), 725V(+/PE, -/PE)
Continuous operating current $I_{opv}$	<20 $\mu$ A
Residual current $I_{rc}$	$\leq 20 \mu$ A dc $\leq 500 \mu$ A ac
Standby power consumption $P_c$	$\leq 25$ mVA
Nominal discharge current (8/20 $\mu$ s) $I_n$	20 kA
Impulse discharge current (10/350 $\mu$ s) $I_{imp}$	6.25 kA
Total impulse discharge current (10/350 $\mu$ s) $I_{totik}$	12.5 kA
Voltage protection level $U_p$	$\leq 4,75$ kV(+/-) $\leq 3,5$ kV(+/PE, -/PE)
Isolation resistance $R_{isol}$	> 1000 M $\Omega$
Response time $t_a$	$\leq 25$ ns(+/-) $\leq 100$ ns (+/PE, -/PE)
Remote control contact	YES
Disconnection indicator	Mechanical indicator (Green: OK, Red: Replace)
Minimum area of connecting cable	6 mm <sup>2</sup>
Maximum area of connecting cable	35 mm <sup>2</sup>
Installation location	Inside
Mounting type	35mm DIN rail acc. to EN 60715
Color	Gray
Degree of protection	IP20
Housing material	UL94V-0
Ambient temperature	-40°C ~ +80°C
Altitude	$\leq 2000$ m (amsl (above mean sea level))
Permissible humidity	30%~90%