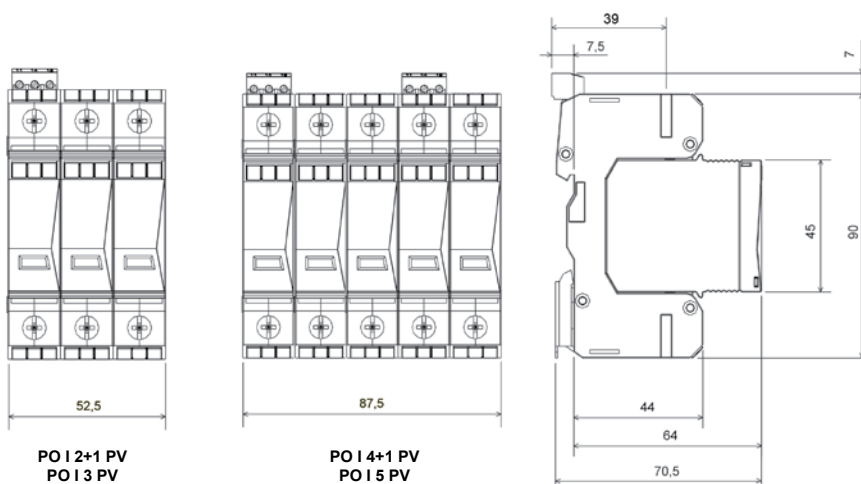


**PO I 2+1 PV and PO I 3 PV
PO I 4+1 PV and PO I 5 PV**

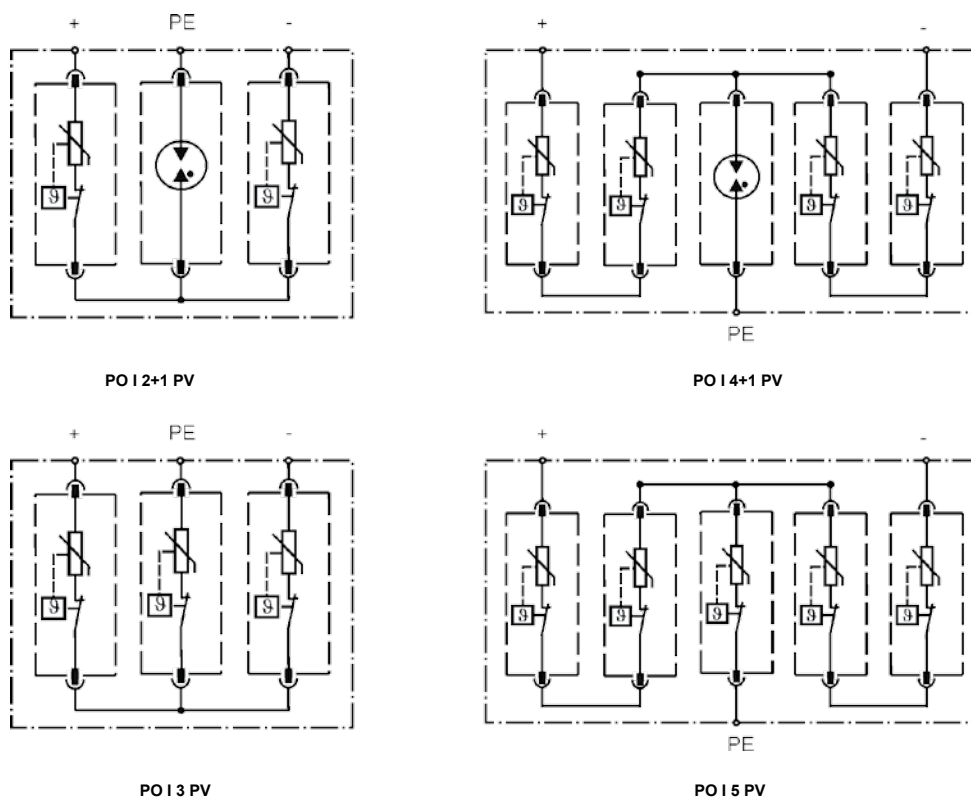
- For protection of DC photovoltaic systems with operating voltage up to 1000V
- 3-pole protection with enhanced withstand against failures of insulation against the earth
- Plug-in protectives modules
- Varistor modules for protection against overvoltage
- Spark gap modul for galvanic insulation from the earth
- Optical signalization of operation state
- Remote signalization of operation state (R version)
- Protective modules rotatable with respect to the base through 180°



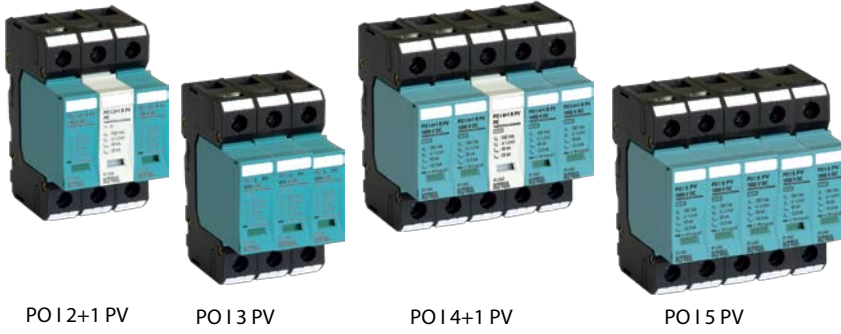
DIMENSIONS



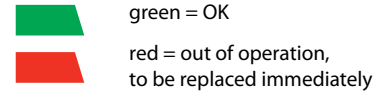
CONNECTION DIAGRAM



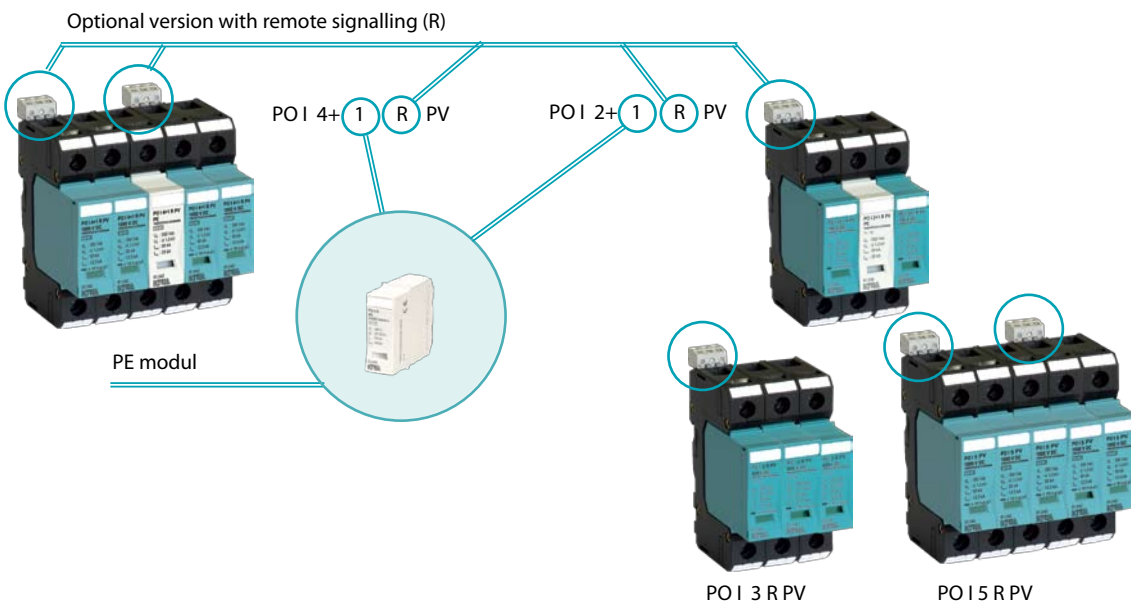
BASIC VERSION



Signalling states:

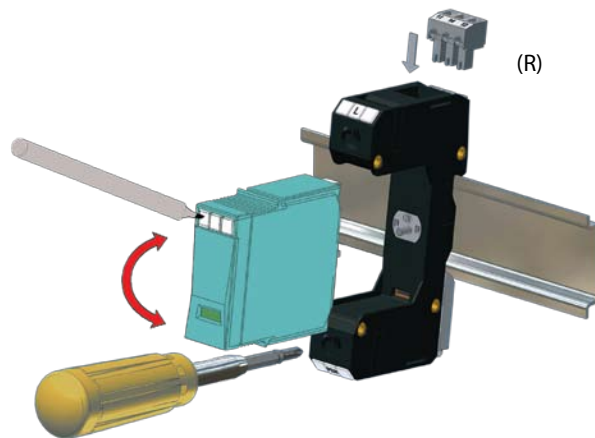


R and PE VERSION



INSTALLATION

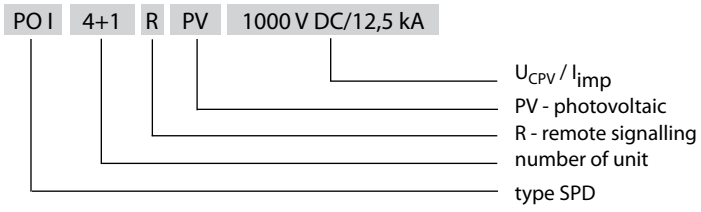
- Installation on DIN rail
- Cable labeling system using Dekafix replaceable strips
- Plug-in varistor can be turned through 180°



TECHNICAL PARAMETERS

KIWA	TYPE	PO I 3 PV	PO I 2+1 PV	PO I 5 PV	PO I 4+1 PV
Numer of ports		3	2+1	5	4+1
Max. operating voltage $\overline{T1}$, $\overline{T2}$	U_{CPV}	600 V=	600 V=	1000 V=	1000 V=
Volatage protection level at I_n $\overline{T1}$, $\overline{T2}$	U_p				
	L+/L-	≤ 2,8 kV	≤ 2,8 kV	≤ 5,6 kV	≤ 5,6 kV
	L+L-/PE	≤ 2,8 kV	≤ 1,9 kV	≤ 4,2 kV	≤ 3,5 kV
Response time	t_A				
	L+/L-	< 25 ns	< 25 ns	< 25 ns	< 25 ns
	L+L-/PE	< 25 ns	< 100 ns	< 25 ns	< 100 ns
Impulse current (10/350)	I_{imp}				
	L+/L-		12,5 kA		
	L+L-/PE	12,5 kA	25 kA	12,5 kA	25 kA
Nominal discharge current (8/20)	I_n		30 kA		
Max. discharge current (8/20)	I_{max}		50 kA		
Prospective short-circuit current of a power supply	I_p		25 kA _{ef}		
Overcurrent protection gL/gG			≤ 160 A		
Residual current	I_{PE}		< 1 μA		
Signalling changeover contact		M3/0.25 Nm, □ 0,2 ... 1,5 mm ² , max. 250 V~/1A			
Status indication of TDD (Thermic Disconnecting Device)		green(OK)/red(OUT)			
Min. ... max. tightening torque		2 ... 3 Nm			
Connecting conductor cross section	- wire	4 ... 35 mm ²			
	- cord	4 ... 25 mm ²			
Operating temperature range		- 40 ... +70 °C			
Degree of protection		IP 20			
Dimensions		97 x 64 x 52,5 mm		97 x 64 x 87,5 mm	
Mounting on profiled DIN rail		35 x 7,5 mm			
Products comply with norms STN EN 61643-11/A11 IEC 61643-1 VDE 0675-06		typ 1 $\overline{T1}$ + typ 2 $\overline{T2}$ Class I + Class II Klasse B + Klasse C			

PRODUCT SPECIFICATION



TYPE	Order number	TYPE	Order number
PO I 3 PV 600 V DC/12,5 kA	81.058	PO I 5 PV 1000 V DC/12,5 kA	81.062
PO I 3 R PV 600 V DC/12,5 kA	81.059	PO I 5 R PV 1000 V DC/12,5 kA	81.063
PO I 2+1 PV 600 V DC/12,5 kA	81.060	PO I 4+1 PV 1000 V DC/12,5 kA	81.064
PO I 2+1 R PV 600 V DC/12,5 kA	81.061	PO I 4+1 R PV 1000 V DC/12,5 kA	81.065