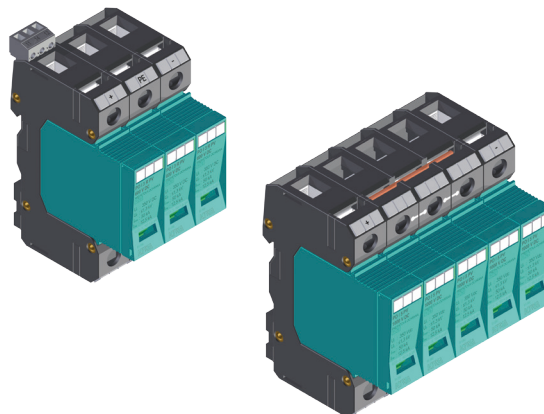
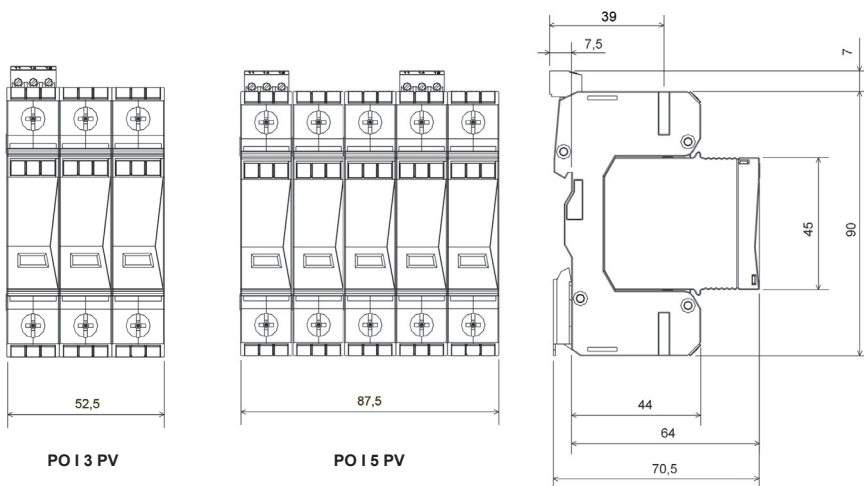


**PO 13 PV
PO 15 PV**

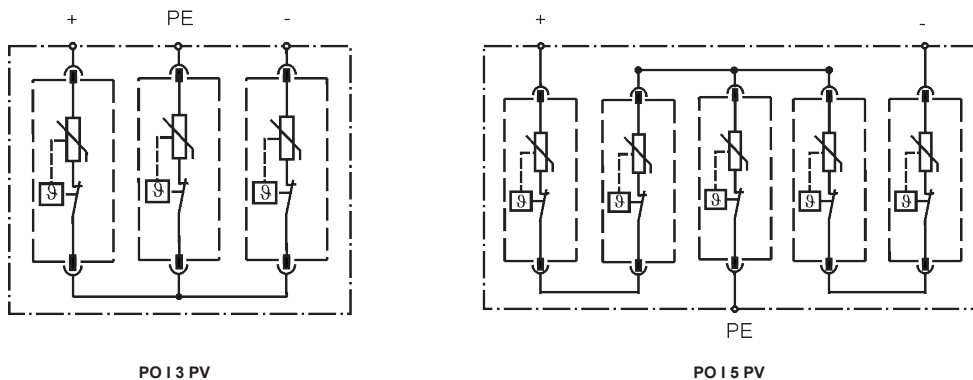
- For protection of DC photovoltaic systems with operating voltage up to 1000 V DC
- 3-pole protection with enhanced withstand against failures of insulation against the earth
- Plug-in protective modules
- Varistor modules for protection against overvoltage
- Optical signalization of operation state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



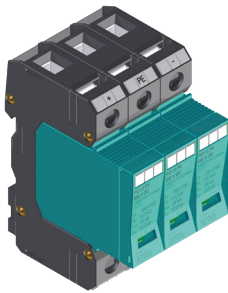
DIMENSIONS



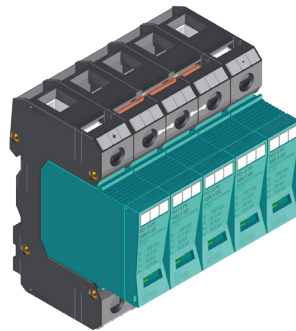
CONNECTION DIAGRAM



BASIC VERSION



PO13 PV



PO15 PV

Signalling states:



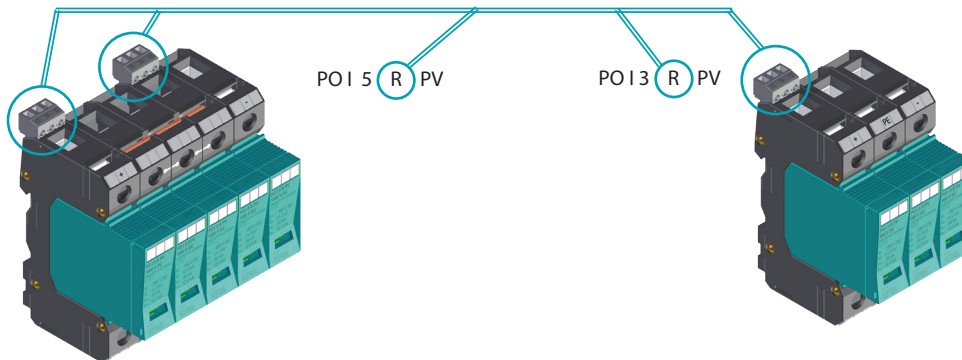
green = OK



red = out of operation,
to be replaced immediately

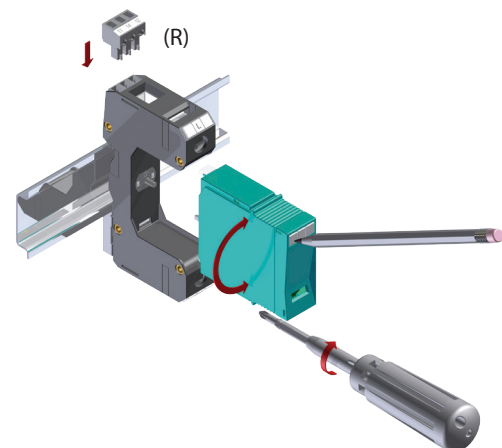
R and PE VERSION

Optional version with remote signalling (R)



INSTALLATION

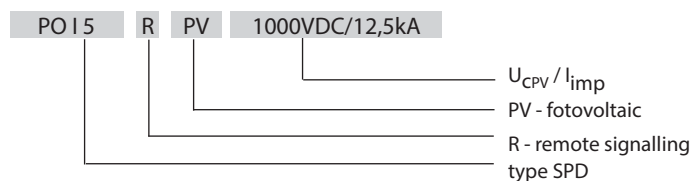
- Installation on DIN rail
- Cable labeling system using Dekafix replaceable strips
- Plug-in varistor can be turned through 180°



TECHNICAL PARAMETERS

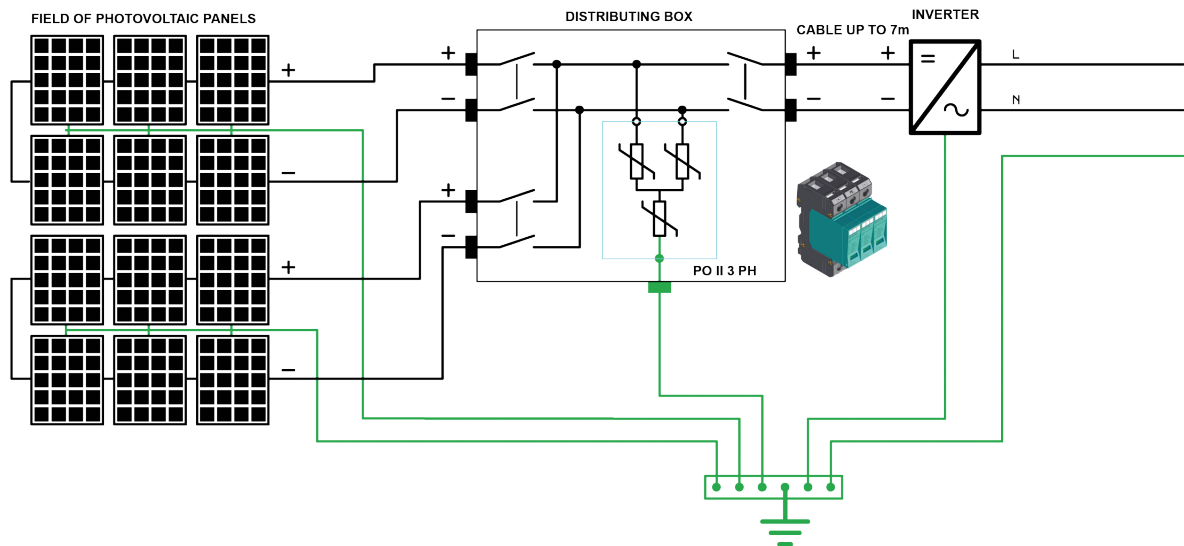
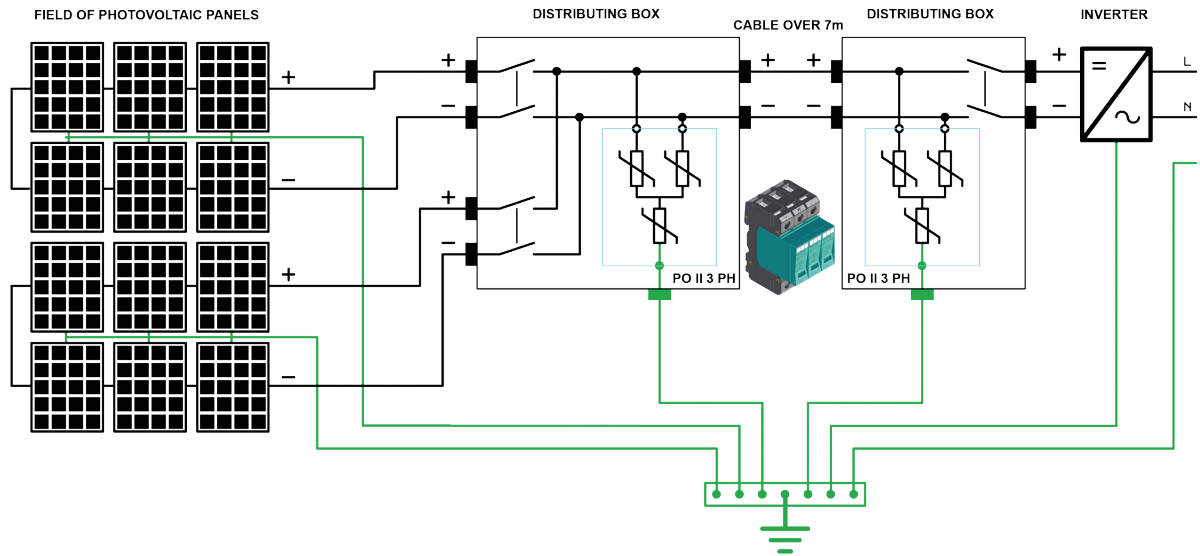
KIWA	TYPE	PO 13 PV	PO 15 PV
Number of poles		3	5
Max. operating voltage T_1, T_2	U_{CPV}	600 V=	1000 V=
Voltage protection level at I_n T_1, T_2	U_p		
	L+/L-	$\leq 2,8$ kV	$\leq 5,6$ kV
	L+L-/PE	$\leq 2,8$ kV	$\leq 4,2$ kV
Response time	t_A		
	L+/L-	< 25 ns	< 25 ns
	L+L-/PE	< 25 ns	< 25 ns
Impulse current (10/350)	I_{imp}		
	L+/L-		12,5 kA
	L+L-/PE	12,5 kA	12,5 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 μ A
Signalling changeover contact		M3/0.25 Nm, $\square 0,2 \dots 1,5$ 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 EN 61643-11 IEC 61643-1 VDE 0675-06		type 1 T_1 + type 2 T_2 Class I + Class II Klasse B + Klasse C	

PRODUCT SPECIFICATION



TYPE	Order number	TYPE	Order number
PO 13 PV 600VDC/12,5kA	81.058	PO 15 PV 1000VDC/12,5kA	81.062
PO 13 R PV 600VDC/12,5kA	81.059	PO 15 R PV 1000VDC/12,5kA	81.063
PO 10 PV 600VDC/12,5kA	81.071	PO 10 PV 1000VDC/12,5kA	81.072

EXAMPLES OF INSTALLATION FOR PHOTOVOLTAIC - DC SIDE



EXAMPLES OF INSTALLATION FOR PHOTOVOLTAIC - AC SIDE

