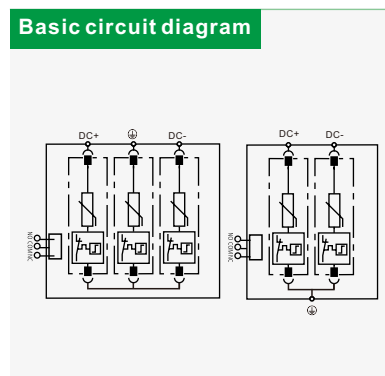
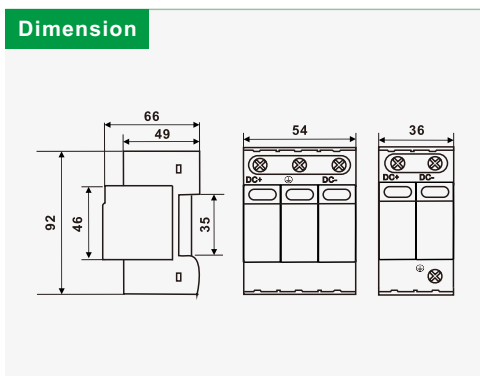


## TRS3 Series PV SPD

SPD PV type 2–surge arrester for PV installation  
Pluggable module, visual fault signalling

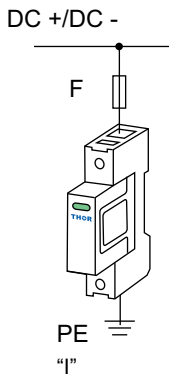
- Varistor surge arrester
- Installation to PV system
- For protection of PV systems where the separating spark–over distance is kept or without LPS
- Optional remote fault signalling(s)



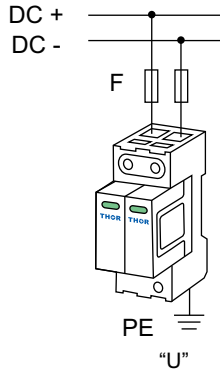
Parameter/Type	TRS3-C40						
PV connection type	U			Y			
Nominal PV Voltage	U <sub>ocstc</sub>	500V DC	600V DC	800V DC	1000V DC	1250V DC	1500V DC
Max. PV Operating Voltage	U <sub>cpv</sub>	600V DC	720V DC	960V DC	1200V DC	1500V DC	1800V DC
Nominal discharge current (8/20μs)	I <sub>n</sub>	20kA					
Maximum discharge current (8/20μs)	I <sub>max</sub>	40kA					
Voltage protection level mode +/PE, -/PE	U <sub>p</sub>	≤2,0kV	≤2,3kV	≤3,0kV	≤4,0kV	≤5,0kV	≤6,0kV
Short–circuit current rating	I <sub>scpv</sub>	10kA					
Response time	t <sub>a</sub>	< 25ns					
Cross–section of connected conductors solid(min/max)		16mm <sup>2</sup> /35mm <sup>2</sup>					
Cross–section of connected conductors stranded(min/max)		16mm <sup>2</sup> /35mm <sup>2</sup>					
Fault indication		red indication field					
Remote indication		potential–free change–over contact					
Remote indication contacts		250V/0,5A AC, 250V/0,1A DC					
Cross–section of remote indication conductors		1,5mm <sup>2</sup>					
Degree of protection		IP20					
Range of operating temperatures (min/ max)		–40°C~ +85°C					
Humidity range		5%~95%					
Mounting		DIN rail 35 mm					
According to standard		EN 61643–31:2012, IEC 61643–31:2011/T2					
Remarks		Other U <sub>cpv</sub> can be customized.					

# DC SPD Wiring diagram

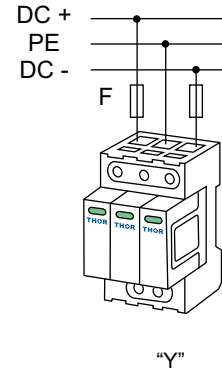
## Photovoltaic system



Connection

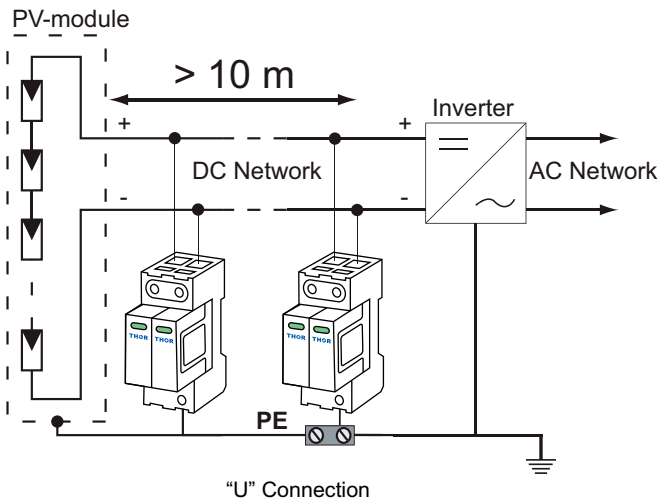


Connection

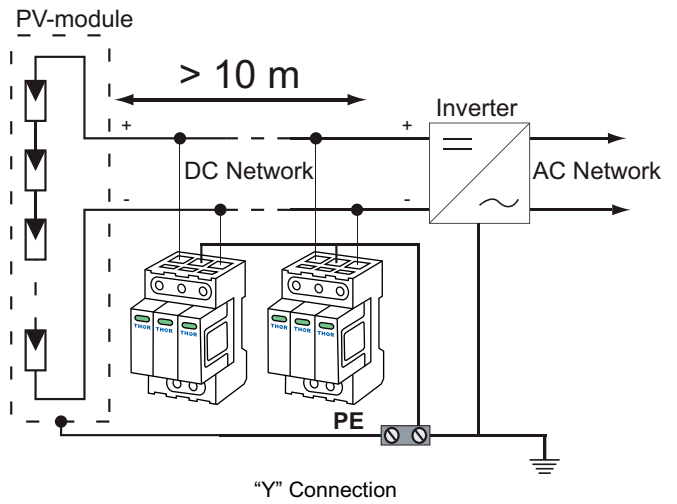


Connection

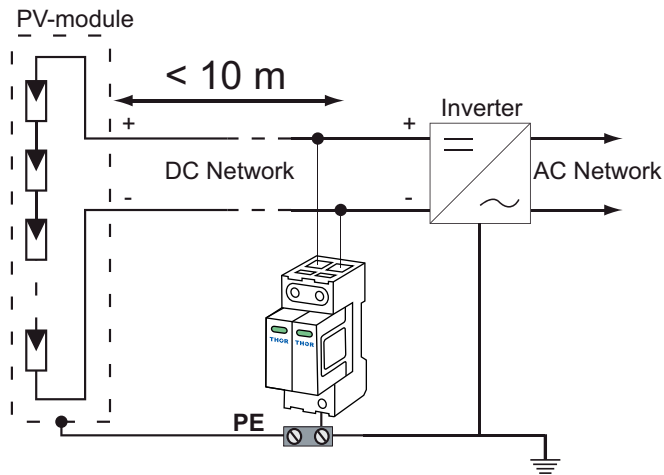
## Connection of DC SPD in networks



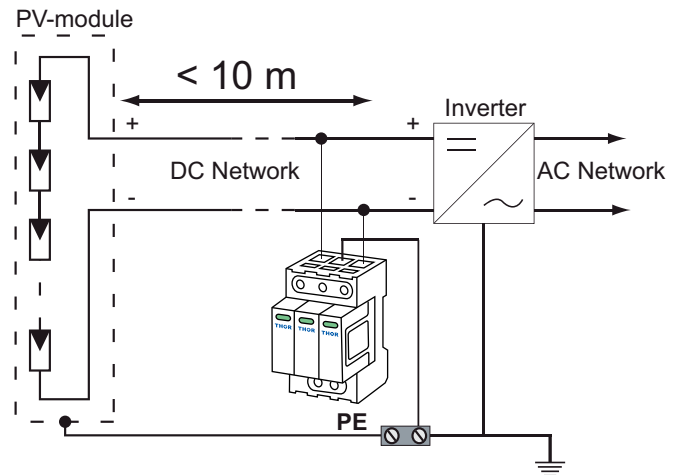
"U" Connection



"Y" Connection



"U" Connection



"Y" Connection