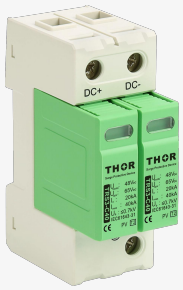
TRS3 Series DC SPD

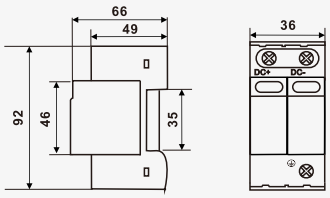
DC Surge Protector for EV Charger / Energy Storage System (ESS) / Telcom Communication

- Varistor surge arrester
- Installtion to DC network
- For protection of DC network where the separating spark–over distance is kept or without LPS
- Optional remote fault signalling(S)

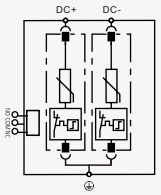
Product



Dimension



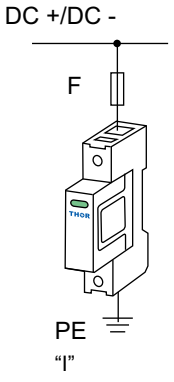
Basic circuit diagram



Parameter/Type		TRS3-C40			
Nominal PV Voltage	U_{ocstc}	24V DC	48V DC	75V DC	110V DC
Max. PV Operating Voltage	U_{cpv}	36V DC	65V DC	80V DC	180V DC
Nominal discharge current (8/20μs)	I_n	20kA			
Maximum discharge current (8/20μs)	I_{max}	40kA			
Voltage protection level mode +/PE, –/PE	U_p	≤0,6kV	≤0,7kV	≤0,8kV	≤0,9kV
Short–cicuit current rating	I_{scpv}	10kA			
Response time	t_a	< 25ns			
Cross–section of connected conductors solid(min/max)		16mm²/35mm²			
Cross–section of connected conductors stranded(min/max)		16mm²/35mm²			
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		1,5mm²			
Degree of protection		IP20			
Range of operating temperatures (min/ max)		–40℃~+85℃			
Humidity range		5%~95%			
Mounting		DIN rail 35 mm			
According to standard		EN 61643–31:2012,IEC 61643–31:2011/T2			
Remarks		Other U_{CPV} can be customized.			

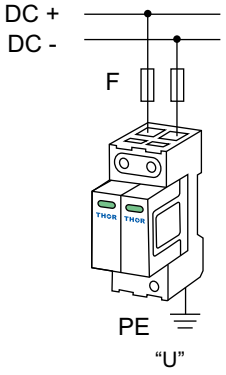
DC SPD Wiring diagram

Photovoltaic system



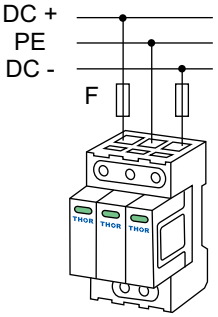
"I"

Connection



"U"

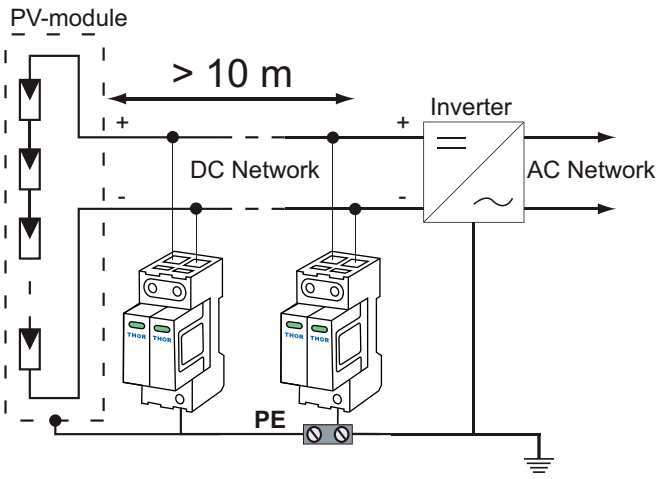
Connection



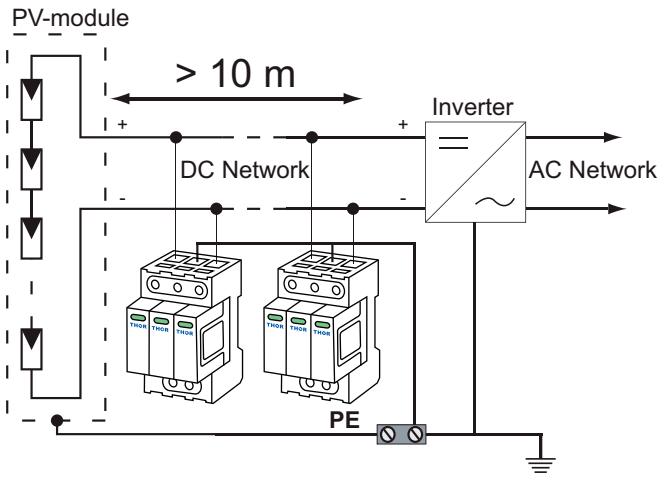
"Y"

Connection

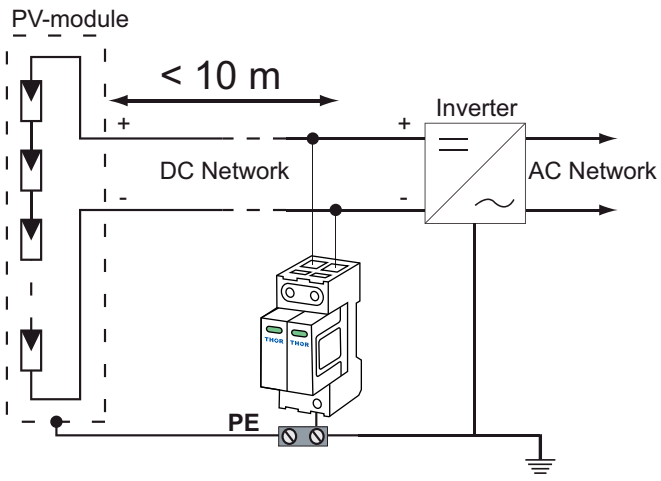
Connection of DC SPD in networks



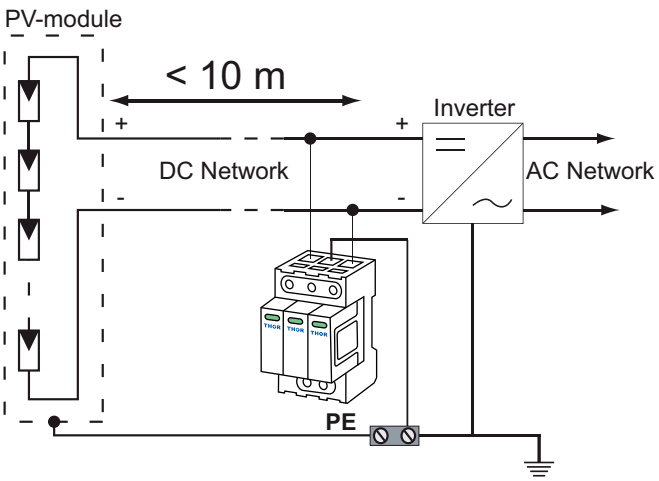
"U" Connection



"Y" Connection



"U" Connection



"Y" Connection