

CPV...-C-S

▪ EN 50539-11 ▪ TUV ▪ I_{max} 40kA



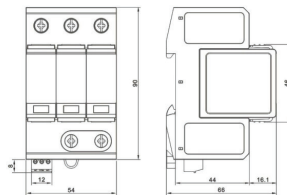
- TUV certified T2 PV SPD with high energy MOV technology
- High surge current discharge capacity up to 40kA 8/20µs
- Short circuit current rating (UL1449, SCCR) up to 100kA tested without external fuse or CB.
- Prewired Y protection circuit, for common mode & differential mode protection
- Easy replacing and anti-vibration due to module releasing and locking system
- Degradation indication & optional remote signal contact
- Comply with IEC61643-31, EN50539-11, UL 1449 4th, IEEE C62.41, CSA C22.2



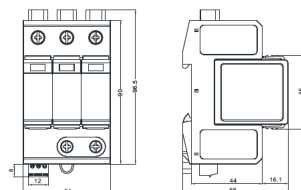
Model		CPV40-200-V-CD-S	CPV40-600-V-CD-S	CPV40-1000-V-CD-S	CPV40-1200-V-CD-S	CPV40-1500-V-CD-S
Compliance		EN50539-11:2013/A1:2014, IEC61643-31, UL 1449 4 th				
Category EN/IEC/UL		T2/ Class II /Type 1ca				
Nominal PV System Voltage (DC)	U _n	200V	600V	1000V	1200V	1500V
Max. Continuous Operating DC Voltage	U _{cpv}	200V	600V	1000V	1200V	1500V
Technology		High energy MOV technology; Thermal disconnecter				
Ports/Protection Mode		1 / Common+Differential				
Nominal Discharge Current (8/20µs)	I _n	20kA				
Max. Discharge Current (8/20µs)	I _{max}	40kA				
Voltage Protection Level	U _p	≤1.2kV	≤2.8kV	≤3.5kV	≤4.0kV	≤5.0kV
Voltage Protection Level @ 5kA	U _{res}	<0.7kV	<2.0kV	<2.8kV	<3.0kV	<3.8kV
Residual Current	I _{PE}	<0.1mA				
Short Circuit Withstand Capacity	I _{scpv}	1000A				
Response Time	t _A	≤25ns				
Follow Current	I _f	No				
Environment		Temperature Range: - 40°C ~ + 80°C; Humidity: ≤95%; Altitude: ≤4000m				
Cross-Section of Connection Wire		Single-strand 35mm ² ; multi-strand 25mm ²				
Mounting		35mm DIN-rail in accordance with EN 50022/DIN46277-3				
Enclosure Material		thermoplastic; extinguishing degree UL94 V-0				
Degree of Protection		IP20				
Installation Width		3 modules, DIN 43880				
Thermal Disconnecter		Internal green – normal ; red - failure				
Remote Alarm Contact		Yes				
Approvals, certification		TUV, CE				
Diagram		1			2	
Additional Data for Remote Alarm Contacts						
Remote Alarm Contact Type		Isolated Form C				
Switching Capability U _n /I _n		AC: 250V/0.5A DC: 250V/0.1A; 125V/0.2A; 75V/0.5A				
Max. Size of Connecting Wire		Max. 1.5mm ² (or # 16AWG)				

■ Dimension Drawing

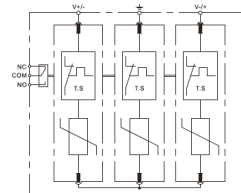
1) U_n: 200~1200V



2) U_n: 1500V



■ Basic Circuit Diagram



CPV40...-V

▪ EN 50539-11 ▪ TUV ▪ PCB Mount ▪ I_{max} 40kA

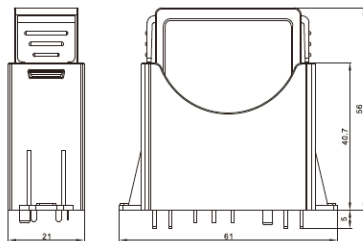


- TUV certified T2 surge protection modules for PV/ Photovoltaic system PV SPD.
- High surge current discharge capacity up to 40kA 8/20µs
- PCB mount design, compact size to save installation space
- Easy replacing and anti-vibration due to module releasing and locking system
- Degradation indication & optional remote signal contact
- Comply with IEC61643-31, EN50539-11, UL 1449 4th, IEEE C62.41, CSA C22.2



Model		CPV40-100-V	CPV40-300-V	CPV40-500-V	CPV40-600-V	CPV40-750-V
Compliance		EN50539-11:2013/A1:2014, IEC61643-31, UL 1449th				
Category EN/IEC/UL		T2/ Class II /Type 1ca				
Ports/Protection mode		1 / single mode				
Nominal PV System Voltage (DC)	U _n	200V	600V	1000V	1200V	1500V
Max. Continuous Operating DC Voltage	U _{cpv}	100V	300V	500V	600V	750V
Technology		High energy MOV technology Thermal disconnecter				
Nominal Discharge Current (8/20µs)	I _n	20kA				
Max. Discharge Current (8/20µs)	I _{max}	40kA				
Voltage Protection Level	U _p	0.6kV	1.4kV	1.75kV	2.0kV	2.5kV
Voltage Protection Level @ 5kA	U _{res}	0.35kV	1.0kV	1.4kV	1.5kV	1.9kV
Residual Current	I _{PE}	<0.1mA				
Short Circuit Withstand Capacity	I _{scpv}	1000A				
Response Time	t _A	≤25ns				
Environment		Temperature Range: - 40°C ~ +80°C Humidity: ≤95% Altitude: ≤4000m				
Location Category		Indoor				
Enclosure Material		thermoplastic; UL94 V-0				
Degree of Protection		IP20				
Failure Indication /Status		RED- Failure				
Mounting		PCB				
Approvals, certifications		TUV, CE				
Additional Data for Remote Alarm Contacts						
Type of Remote Signaling Contact		Changeover contact				
Switching Capability		125V _{ac} /1A, 125V _{dc} /0.2A				

■ Dimension Drawing



■ Basic Circuit Diagram

