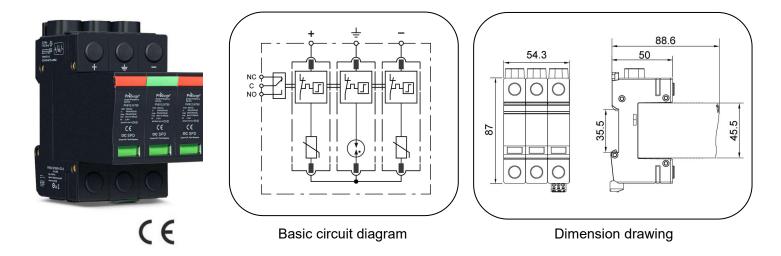


Class I /T1, DC Surge Arresters DB12.5/xxxx-V2T-CD(-S)



The DB12.5 V2T is class I (or T1) prewired DC SPD designed for DC application such as electric vehicle(EV) charging station, energy storage etc. to against the damaging from surges and spikes caused by lightning and other electrical sources.

With built in PROSURGE high energy MOV & Gas Tube, DB12.5 V2T ensures remarkable total impulse current discharge capacity up to 15kA 10/350µs and high reliability. The unique design of thermal protection provides quick thermal response and secure disconnection.

- Class I/T1 DC SPD per IEC/EN 61643-1/31/41 standard
- 18mm narrow model design, prewired three poles of Y circuit for common mode & differential mode protection
- Application in DC power system like electric vehicle(EV) charging station system ,energy storage system etc
- Unique thermal disconnector design
- Total impulse current discharge capacity up to 15kA 10/350µs
- Surge current capability up to 60kA 8/20µs per pole
- High short-circuit current rating up to 50kA
- Higher TOV withstand performance
- Galvanic separation between DC+/DC- and GND conductor, no leakage current to ground
- Low voltage protection level
- Failure indication and optional remote signal contact.
- Pluggable module for easy replacement without the need to remove system wiring
- Wide operating temperature -40° C ~85° C
- 35mm DIN-rail mounting
- Comply with IEC61643-1/11/31/41,EN 50539-11,UL1449 5th, IEEE C62.41,CSA C22.2 standards

POWER SUPPLY SYSTEM

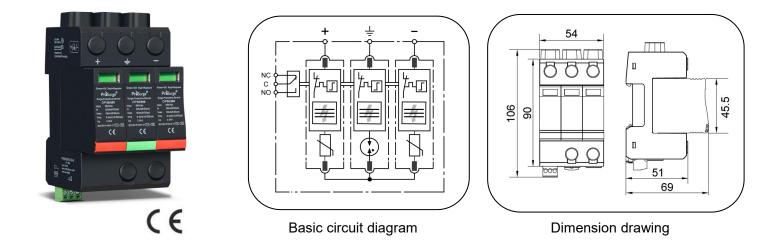


Technical data

Part No.		DB12.5/xxxx-V2T-CD(-S)					
		800	1000	1200	1500		
In accordance with		IEC/EN 61643-1/11/31/41; UL1449 5th; EN 50539-11					
Category IEC/EU/VDE		I/T1/B					
Protection mode		DC+ to DC- , DC+/- to GND					
Nominal Voltage (DC) Un		800V	1000V	1200V	1500V		
Max. continuous operating voltage (DC) Uc	DC+ to DC-	800V	1000V	1200V	1500V		
	DC+/- to GND	800V	1000V	1200V	1500V		
Nominal discharge current (8/20) In		20kA					
Max. discharge current (8/20) Imax		60kA					
Lightning impulse current (10/350) limp		8kA	6.25kA	5kA	4kA		
Total discharge current (8/20) Itotal		100kA	100kA	100kA	100kA		
Total impulse current (10/350)	Itotal	15kA	12.5kA	10kA	8kA		
Voltage protection level	DC+ to DC-	4.5kV	4.8kV	5.3kV	5.8kV		
Up	DC+/- to GND	2.3kV	2.5kV	2.8kV	3.0kV		
Short-circuit Current rating Isccr		50kA					
Response time tA	DC+ to DC-		≤25ns				
	DC+/- to GND		≤100ns				
Leakage current (DC+/- to GND)		No					
Operating temperature range		- 40ºC ~ + 85ºC					
Altitude		-500m ~ +4000m					
Cross-section of connection wire (max)		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 disconnector		Internal Green – normal ; red - failure					
Remote alarm contact		Optional					
Approvals, Certifications		CE					
Additional data for Remote Alarm Contacts							
Remote alarm contact type		Isolated Form C					
Switching capability Un/In		AC: 250V/0.5A DC: 250V/0.1A; 125V/0.2A; 75V/0.5A					
Cross-section of remote signaling wire		Max. 1.5mm²(or # 16AWG)					



Class II /T2, DC Surge Arresters DP50/xxxx-V2T-CD(-S)



The DP50 V2T is class II (or T2) prewired DC SPD designed for DC application such as electric vehicle(EV) charging station, energy storage etc. to against the damaging from surges and spikes caused by lightning and other electrical sources.

With built in PROSURGE high energy MOV & Gas Tube, DP50 V2T ensures remarkable surge current discharge capacity up to 50kA 8/20µs and high reliability. The unique design of thermal protection provides quick thermal response and secure disconnection.

- Class II/T2 DC SPD per IEC/EN 61643-1/31/41 standard
- Prewired three poles of Y circuit for common mode & differential mode protection
- Application in DC power system like electric vehicle(EV) charging station system, energy storage system etc
- Unique thermal disconnector design
- Total discharge current capacity up to 100kA 8/20µs
- Surge current capability up to 50kA 8/20µs per pole
- High short-circuit current rating up to 25kA
- Higher TOV withstand performance
- Galvanic separation between DC+/DC- and GND conductor, no leakage current to ground
- Low voltage protection level
- Failure indication and optional remote signal contact
- Pluggable module for easy replacement without the need to remove system wiring
- Wide operating temperature -40° C ~85° C
- 35mm DIN-rail mounting
- Comply with IEC61643-1/11/31/41,EN 50539-11,UL1449 5th, IEEE C62.41,CSA C22.2 standards

POWER SUPPLY SYSTEM



Technical data

Part No.		DP50/xxxx-V2T-CD(-S)				
		800	1000	1200	1500	
In accordance with		IEC/EN 61643-1/11/31/41; UL1449 5th; EN 50539-11				
Category IEC/EU/VDE		II/T2/C				
Protection mode		DC+ to DC- , DC+/- to GND				
Nominal Voltage (DC) Un		800V	1000V	1200V	1500V	
Max. continuous operating voltage (DC) Uc	DC+ to DC-	800V	1000V	1200V	1500V	
	DC+/- to GND	800V	1000V	1200V	1500V	
Nominal discharge current (8/20) In		20kA				
Max. discharge current (8/20) Imax		50kA	50kA	45kA	45kA	
Total discharge current (8/20) Itotal		100kA	100kA	80kA	80kA	
Voltage protection level Up	DC+ to DC-	4.5kV	4.8kV	5.3kV	5.8kV	
	DC+/- to GND	2.3kV	2.5kV	2.8kV	3.0kV	
Short-circuit Current rating Isccr		25kA				
Response time tA	DC+ to DC-	≤25ns				
	DC+/- to GND	≤100ns				
Leakage current (DC+/- to GND)		No				
Operating temperature range		- 40ºC ~ + 85ºC				
Altitude		-500m ~ +4000m				
Cross-section of connection wire (max)		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 disconnector		Internal Green – normal ; red - failure				
Remote alarm contact		Optional				
Approvals, Certifications		CE				
Additional data for Remote Alarm Contacts						
Remote alarm contact type		Isolated Form C				
Switching capability Un/In		AC: 250V/0.5A DC: 250V/0.1A; 125V/0.2A; 75V/0.5A				
Cross-section of remote signaling wire		Max. 1.5mm ² (or # 16AWG)				