

PV lightning protection cabinet

Various lightning protection cabinets with all kinds of functions launched only by Suntime involve surge protection, over-current protection, connection, switching and many other devices. Design of these lightning protection cabinets are fully in accordance with the standard CLC/TS 50539-12. The products are widely used on AC and DC sides of PV inverters. Custom made according to your requirements is available.

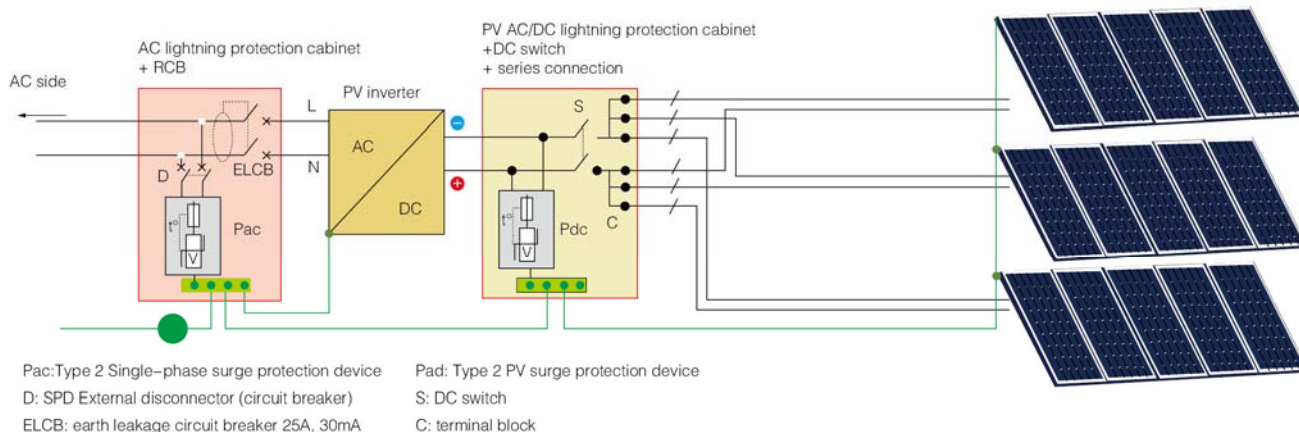
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Distributed substation used lightning protection cabinet

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SPV240 Series

AC lightning protection cabinet



Model	SPV240-230-XXX-DDR	
Power grid voltage	Un	230V single-phase
Max current	16A-25A-32A	
Circuit connection (input/output)	6mm ² max	
Safety		
Thermal disconnecter	Built-in	
Visible disconnecting index	Lightning protection indicator	
Surge protection	Surge protection device	
Over-current protection	Circuit breaker (16 or 32A)	
Protect against indirect contact	Differential circuit breaker 30mA	
Type2 Surge protection device	SUP2-230/G	
Max continuous working voltage	Uc	255VAC
Nominal discharge current	In	20kA
Max discharge current	I _{max}	40kA
Voltage protection level (common mode/differential mode)	Up	1,5/1,25kV
Structural parameters		
Shell material	UL90-V0	
Waterproof grade	IP55	

Distributed substation used lightning protection cabinet

SPV50-XXX-XXA-XST Series

DC lightning protection cabinet



Model	SPV50-500-40A-3ST	SPV50-600-40A-3ST	SPV50-800-40A-3ST
Array string number	3	3	3
Max PV voltage U_{ocstc}	500VDC	600VDC	800VDC
Max PV current I_{mpstc}	25A	25A	25A
Circuit connection (input/output)	Terminal 6,5/10mm ²	Terminal 6,5/10mm ²	Terminal 6,5/10mm ²
DC switch	Yes	Yes	Yes
Fuse wire protection of branch circuit	Optional	Optional	Optional

Type2 Surge protection device	SUP2-PV500/51	SUP4-PV800/51	SUP4-PV1000/51
Max PV voltage U_{cpv}	600VDC	720VDC	960VDC
Nominal discharge current I_n	15kA	15kA	15kA
Max discharge current I_{max}	40kA	40kA	40kA
Voltage protection level U_p	2,2kV	2,8kV	2/3,6kV

Structural parameters	
Shell material	ABS PC
Ingress protection	IP65

SPV240-50 Series

AC/DC lightning protection cabinet

Model	SPV240-50-230-XX-DDR	
Power grid type	AC single-phase grid	2-string-DC grid
Working voltage U_n/U_{ocstc}	230V single-phase	600VDC
Max current	16A-25A-32A	25A
Connection mode	Max 6mm ² screw terminal connection	Max 6mm ² MC interface connection

Type2 Surge protection device	SUP2-230/G	SUP4-600/51
Max continuous working voltage U_c	255Vac	720Vdc
Nominal discharge current I_n	20kA	15kA
Max discharge current I_{max}	40kA	40kA
Protection level U_p	1,5/1,25kV	2,8kV

Structural parameters	
Shell material	UL90-Vo
Ingress protection	IP55