

ASPD 1000 VDC PV Surge Protection Device



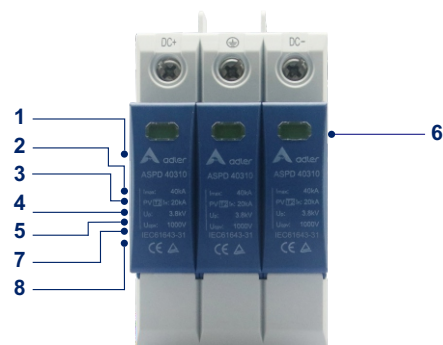
FEATURES:

- Type 2 DC power surge protector for PV systems
- Integrated status indicator window
- Pre wired complete modular unit (consists of base unit and replaceable protection modules)
- Maintenance-free, easily replaceable protection modules
- High energy MOV's response time less than 25 Nano-seconds
- Optional remote signal contacts for monitoring device (floating changeover contacts FM can be installed)
- DIN Rail mounting TH35- 7.5 / DIN35
- Compatible with IEC 61643-31

PRODUCT SPECIFICATIONS

ASPD PV DC Surge Protection Device		
Poles		3
Standard		IEC 61643-31
Electrical Characteristics		
Category IEC / EN		Type 2
Max Continuous Operational Voltage	U_{cpv}	1000 VDC
Nominal Discharge Current	$I_n(8/20)\mu s$	20 kA
Maximum Discharge Current	$I_{max}(8/20)\mu s$	40 kA
Voltage Protection Level Up	U_p	≤ 3.8 kV
Response Time		≤ 25 ns
Control and Indication		
Operating State/fault Indication		Green/Red
Replaceable Plug in type Protection Module		■
Remote Signalling	Max. Working Voltage(V)	30 VDC
Contact (Optional)	Max. Working Current	1 A
Connection And Installation		
Wire	Hard cable mm ²	4-25
	Flexible cable mm ²	4-16
Terminal Screws		M5
Torque(Nm)	Main Circuit	2.5
	Remote Contact	0.25
Degree of Protection		IP20
Installation Environment		
Operating Temperature Range (TU)		-40°C to +80°C
For Mounting on		TH35-7.5/DIN35
Relative Humidity		30% to 90%
Weight kg		0.36

PRODUCT ARCHITECTURE

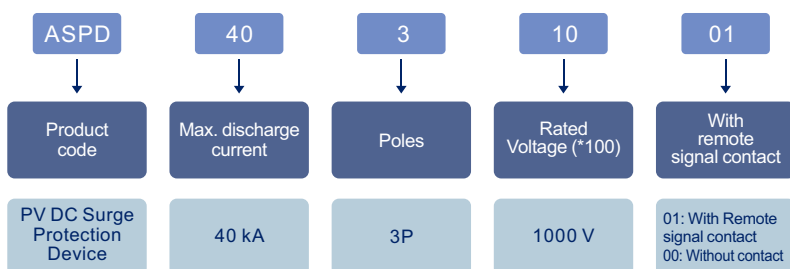


- 1 Brand
- 2 Max. Discharge Current I_{max}
- 3 Nominal Discharge Current I_n
- 4 Voltage Protection Level U_p
- 5 Max. Continuous Operating Voltage U_{cpv}
- 6 Indicator
- 7 Standard Code
- 8 Certificate Symbol

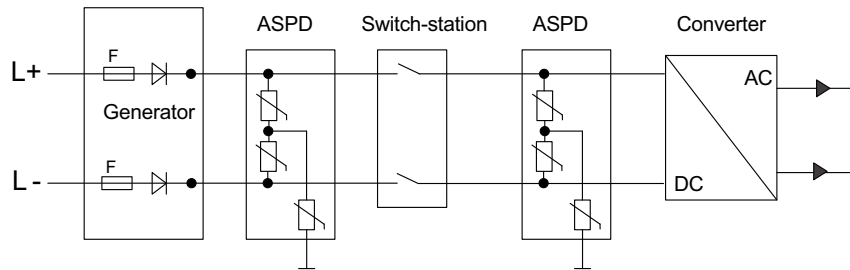
APPLICATION

ADLER's ASPD Series PV DC Surge Protection Devices are designed and manufactured complying to PV standard IEC 61643-31. It is widely used in PV DC combiner boxes, inverters, controllers and DC cabinets. With a rated voltage of 1000 VDC and a maximum discharge current of 40 kA, the integrated high-energy varistor provides highly effective protection against lightning and surge voltages.

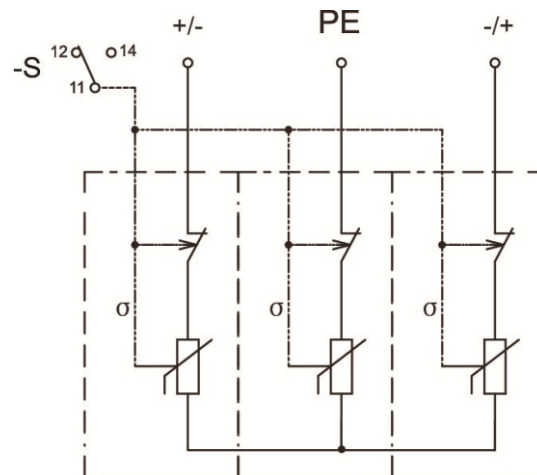
MODEL NUMBERING DEFINITIONS



CONNECTION DIAGRAM



ELECTRICAL PRINCIPLE



DIMENSIONS (mm)

