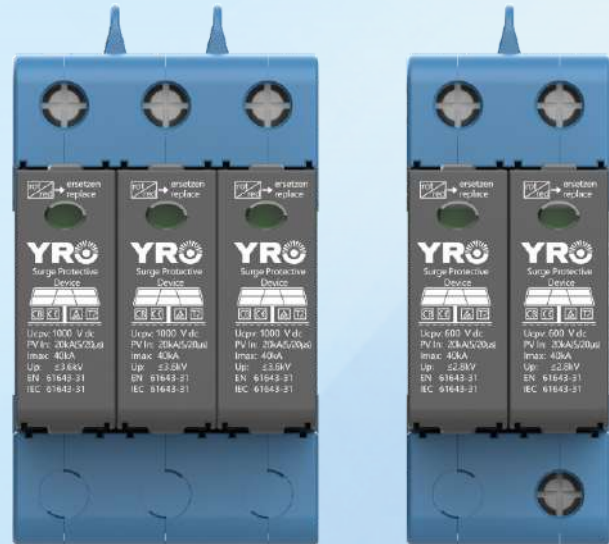


YRSP-D2 SERIES

Type2SurgeProtective Device For Photovoltaic Systems



Technical Parameters

Technical Data	
Location of Use	String box, Inverter
Mode of Protection	(DC+)-PE, (DC-)- PE, (DC+)- (DC-)
Surge Ratings	In=20kA (8/20 μ s) ITotal=up to 40kA (8/20 μ s)
IEC/EN Category	Class II / Type 2
Protective Elements	High Energy MOV
Housing	Pluggable Design
Compliance	IEC 61643-31:2018 EN 50539-11:2013+A1:2014



IEC ELECTRICAL		2P			3P	
YRSP-D2		600	800	1000	1000	1500
Maximum Continuous Operating DC Voltage	(DC+) - PE, (DC-) - PE U_{CPV}	600V	800V	1000V	1000V	1500V
	(DC+) - (DC-) U_{CPV}	-	800V	1000V	1000V	1500V
Nominal Discharge Current (8/20 μ s)	I_n	20 kA				
Total Discharge Current (8/20 μ s)	I_{Total}	40 kA				
Maximum Discharge Current (8/20 μ s)	I_{max}	40 kA				
Voltage Protection Level	(DC+) - PE, (DC-) - PE U_p	2800V	3200V	3200V	3600V	5200V
	(DC+) - (DC-) U_p	-	3200V	3200V	3600V	5200V
Residual Current at UC	I_{PE}	≤ 0.5 mA				
Response Time	t_A	< 25ns				
Short-Circuit Current Rating	I_{SCP}	2000 A				
Number of Ports		1				

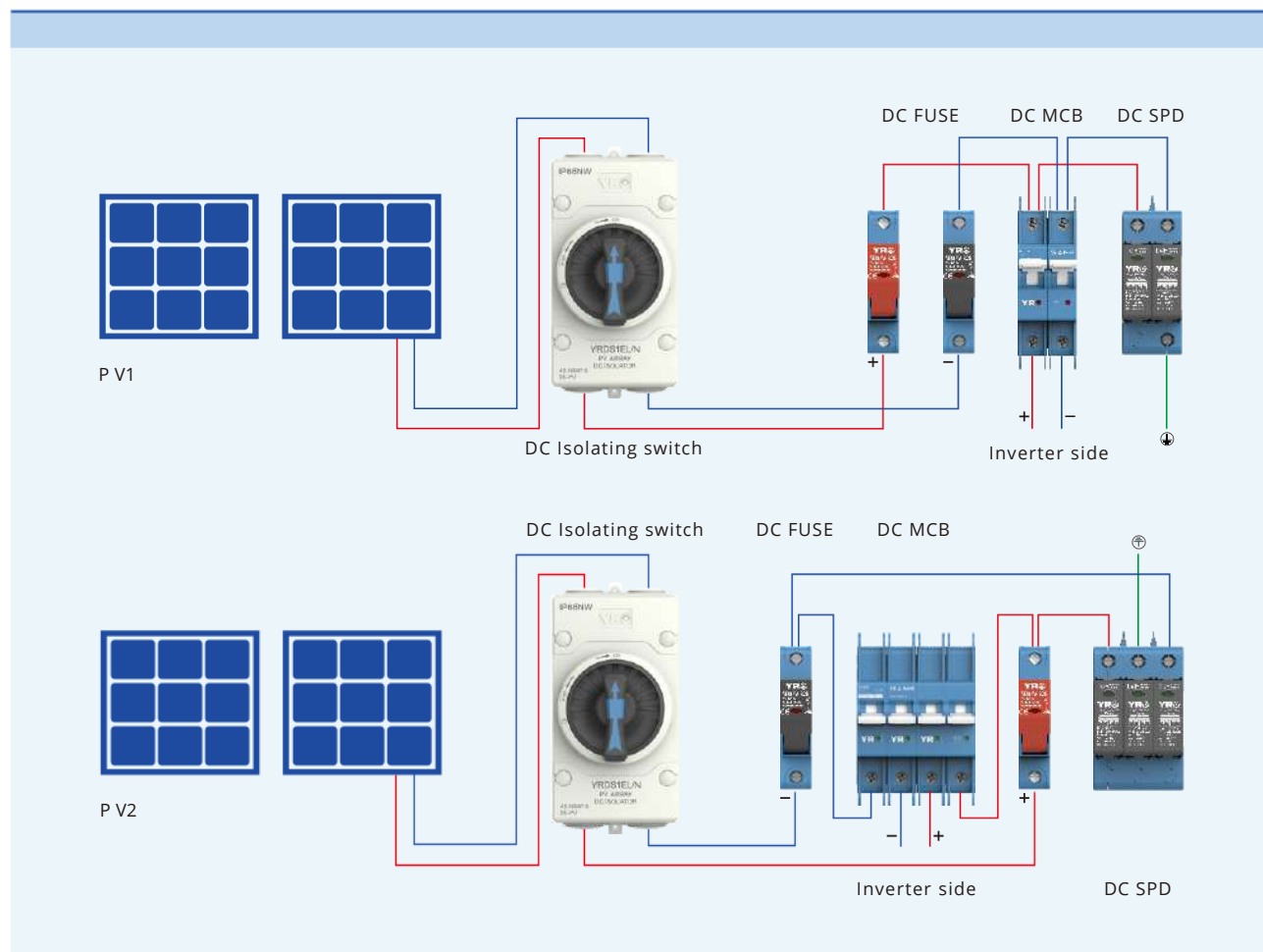
YRSP-D2 SERIES

Type2SurgeProtectiveDevice For Photovoltaic Systems

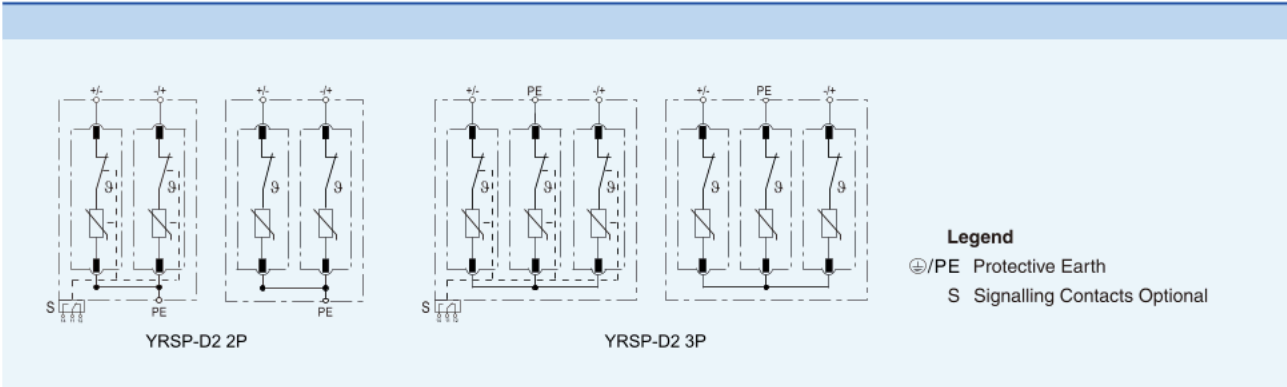


Mechanical & Environmental		
Operating Temperature Range	T_a	-40 °F to +158 °F [-40 °C to +70 °C]
Permissible Operating Humidity	RH	5%...95%
Atmospheric pressure and altitude		80k Pa ... 106k Pa / -500 m ... 2000 m
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5 Nm]
Conductor Cross Section (max)		5 AWG (Solid, Stranded) / 5 AWG (Flexible)
		16 mm ² (Solid, Stranded) / 16 mm ² (Flexible)
Mounting		35 mm DIN Rail, EN 60715
Degree of Protection		IP 20 (built-in)
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0
Thermal Protection		Yes
Operating State/Fault Indication		Green ok / Red defect
Remote Contacts (RC)		Optional
RC Switching Capacity		AC: 250V/0.5A; DC: 250V/0.1A; 125V/0.2A; 75V/0.5A
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm ² (Solid)

Wiring Diagram



Internal Configuration



Dimensions & Packaging

