

YRDS1EL DC Isolator(1500V) IP66 Enclosure



Product Application

IP66 enclosure series - YRDS1EL/50 DC Isolator is developed for 1000V commercial solar rooftops and installed between photovoltaic panels and inverters to guarantee safety. YRDS1EL/50 DC Isolator has optional aluminum box and plastic box (optional breathable valve) and is produced by patented arc interrupter and TUV certified materials to ensure the highest quality and solar DC safety.

Product Benefits

- IP66, UV Resistance
- Arcing Time < 1ms
- Earth Terminal
- IEC60947-3, AS60947.3
- 2 Poles, 4 Poles Available(Single | Double String)
- DC-PV2 / DC-21B: 55A up to 1500VDC

Aluminum box

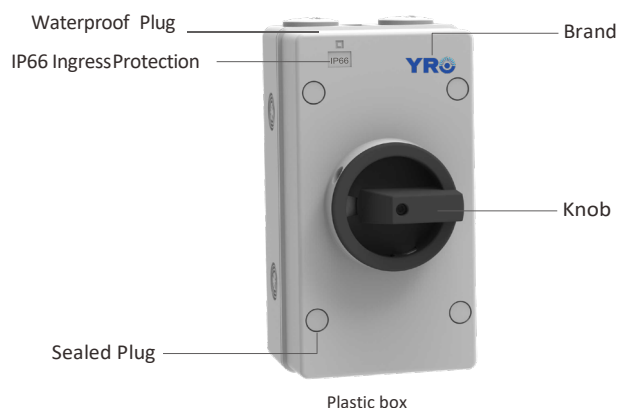
- Metal material, with anti-corrosion, anti-explosion resistance against IK10, can adapt to harsh environments

Select Code

YR	D	S	□	□	/	□	/	□	□
1	2	3	4	5	6	7	8		
Code	Name	Description							
1	 brand	YR							
2	DC	D							
3	Isolation Switch	S							
4	Series	1: Series 1							
5	Mounting Type	EL: Plastic enclosure box							
6	Rated Current	13: 13A 25: 25A 50: 50A 20: 20A 40: 40A							
		UL 13: 13A 25: 25A 20: 20A 30: 30A							
7	Pole	4:4P 4T/4B/4S							
		4:4P							
8	Lockable/Unlock	R:lockable Nill : unlockable							

YRDS1EL DC Isolator(I 500V) IP66 Enclosure

Appearance Introduction



Technical Data

Data according to IEC/EN60947-3: AS60947.3, UL508i, GB/T14048.3. Utilization category DC-PV1/DC-PV2.

Main Parameters			13	20	25	40	50
Rated insulation voltage	Ui	V	1500	1500	1500	1500	1500
Rated thermal current	Ith	A	32	40	55	55	55
Rated impulse withstand voltage	Uimp	V	8000				
Rated short-time withstand current (1s)	Icm	A	780				
Rated short-time making capacity	Icm		1200A				
Maximum cable cross sections (incl. jumper)							
Solid or standard		mm²	4-16				
Flexible		mm²	4-16				
Flexible (+ multicore cable end)		mm²	4-16				
Torque							
Tightening torque terminal screws M4.		Nm	1.2-1.8				
Tightening torque single hole mounting nut M16		Nm	2.0-2.3				
Tightening torque knob screws M3		Nm	0.5-0.7				
Switching on or off torque		Nm	0.9-1.9				
General parameters							
Knob positions			9 o'clock OFF, 12 o'clock, ON				
Electrical Life	Actual		3000 Cycles				
	Standard		300 Cycles				
Mechanical Life	Actual		10000 Cycles				
	Standard		10000 Cycles				
Number of DC poles			2 or 4				
Distance of contacts (per pole)		mm	8				
Operation temperature		°C	-40 to +85				
Store temperature		°C	-40 to +85				
Pollution degree			3				
Overvoltage category			III				
IP rating of shafte and mounting nut			IP66				

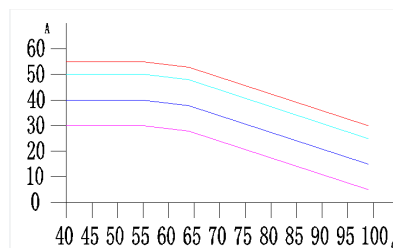
YRDS6EL DC Isolator(1500V) IP66 Enclosure

Number of layers	Voltage/Current (DC-PV1)					
	600Vdc	800Vdc	1000Vdc	1200Vdc	1500Vdc	Model
4	32	26	13	10	5	YRDS6EL/13/ZY
	40	30	20	12	6	YRDS6EL/20/ZY
	55	45	25	15	8	YRDS6EL/25/ZY
	/	50	40	30	20	YRDS6EL/40/ZY
	/	55	50	40	30	YRDS6EL/50/ZY
	/	/	32	26	13	YRDS6EL/13/ZY
4T/B/S	/	/	40	30	20	YRDS6EL/20/ZY
	/	/	55	40	30	YRDS6EL/25/ZY
	/	/	/	/	45	YRDS6EL/40/ZY
	/	/	/	/	50	YRDS6EL/50/ZY
	/	/	/	/	50	YRDS6EL/50/ZY

According to UL 508i

Layers	Voltage / current (UL 508i)			
	600VDC	800VDC	1000VDC	Model
4	30	30	13	YRDS6EL/13/ZY
	30	30	20	YRDS6EL/20/ZY
	30	30	25	YRDS6EL/25/ZY
	30	30	30	YRDS6EL/30/ZY

Type		
Cable section	4.0-16mm ²	
Type of Conductor		4-16mm ² (Rigid: Solid or Stranded)
		4-10mm ² (Flexible)
Number of conductors per terminal	1	
Required preparation of the conductor	Yes	
Stripping length (mm), main circuit	8mm	
Tightening torque (M4), main circuit	1.2~1.8N.m	



Note: As the temperature increases, the current decreases