

BYSS.1/BYSS.2

Series in UL version



UL508i

- 1 Brand
- 2 Type
- 3 OFF
- 4 ON
- 5 Electrical symbol



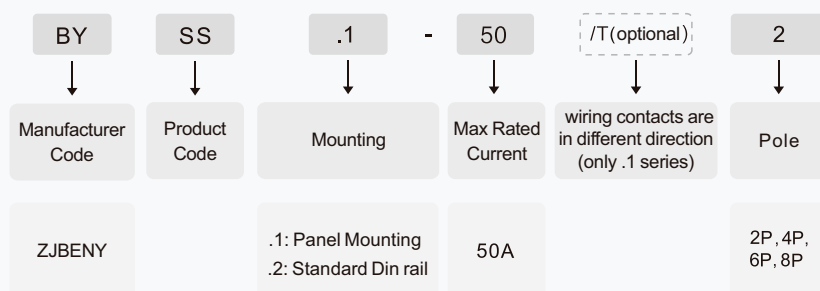
Application

ZBENY BYSS Series DC disconnect switch is used in 1-200KW solar inverter, Compliance with UL508i, 2P for 1 load up to 1000V DC 30A or 750V DC 50A. low temperature rising, long worklife and short arcing time. For Multiple independent MPPTs.

Appearance Introduction



Type Instruction



Parameter

Electrical Characteristics		
Rated Working Voltage	Ue	Details in diagram
Rated Current	Ie	Details in diagram
Conventional free air thermal current	Ith	50A
Rated impulse withstand voltage	Uimp	8kV
Rated short-time withstand current(1s)	Icw	1.5kA
Rated short-circuit making capacity	Icm	2.0kA
Standard fault short-circuit current		5kA
High fault short-circuit current		8kA
Installation Environment		
Number of cycles of operation(with current)		6000
Number of cycles of operation(without current)		10000
Pole		2/4/6/8
Mounting	Panel Mounting	Standard Din rail
Tightening torque terminal screws M4, min.-max.	1.2Nm-1.8Nm	
Tightening torque panel mounting nut, min.-max.	3.0Nm-3.5Nm	
Conventional handle tightening torque screws M3 , min.-max.	0.5Nm-0.7Nm	
Long lever handle tightening torque screws M3 , min.-max.	1.5Nm-1.8Nm	
Ambient temperature allowed between	-40°C~+85°C	
Storage temperature allowed between	-40°C~+85°C	
Relative Humidity	90%	
Pollution degree	2	
IP rating terminals	IP20	
IP rating panel mounting	IP66	


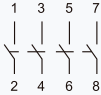
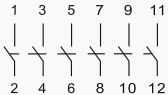


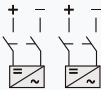
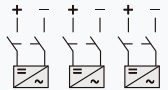

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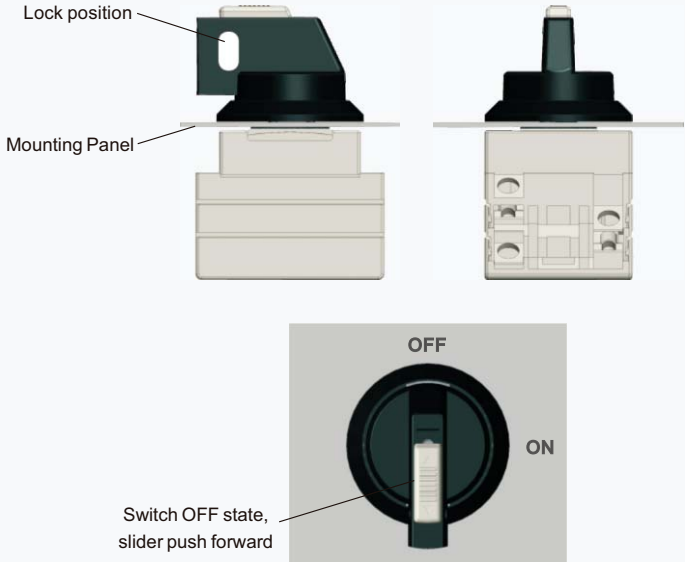
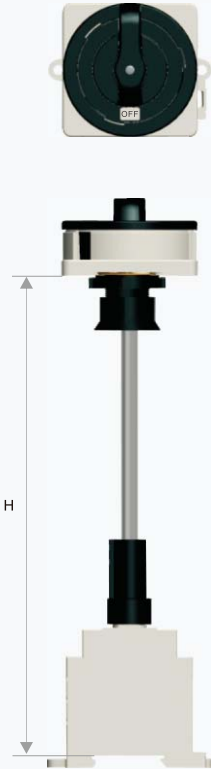
Wiring Diagram

	Type	Max Rated Current(UL508i)			Poles in series	Number of Strings
		350V/500V/600V	750V	1000V		
	BYSS.1-50-2 BYSS.1-50/T-2 BYSS.2-50-2	16A	50A	16A	2	1
		18A				
		20A				
		25A				
		32A				
		38A				
		40A				
		45A				
		50A				
	BYSS.1-50-4 BYSS.1-50/T-4 BYSS.2-50-4	16A	50A	16A	2	2
		18A				
		20A				
		25A				
		32A				
		38A				
		40A				
		45A				
		50A				
	BYSS.1-50-6 BYSS.1-50/T-6 BYSS.2-50-6	16A	50A	16A	2	3
		18A				
		20A				
		25A				
		32A				
		38A				
		40A				
		45A				
		50A				
	BYSS.1-50-8 BYSS.1-50/T-8 BYSS.2-50-8	16A	50A	16A	2	4
		18A				
		20A				
		25A				
		32A				
		38A				
		40A				
		45A				
		50A				

Switching Configurations

Type	2P	4P	6P	8P
Contacts Wiring diagram				
Switching example				

Operating handle type

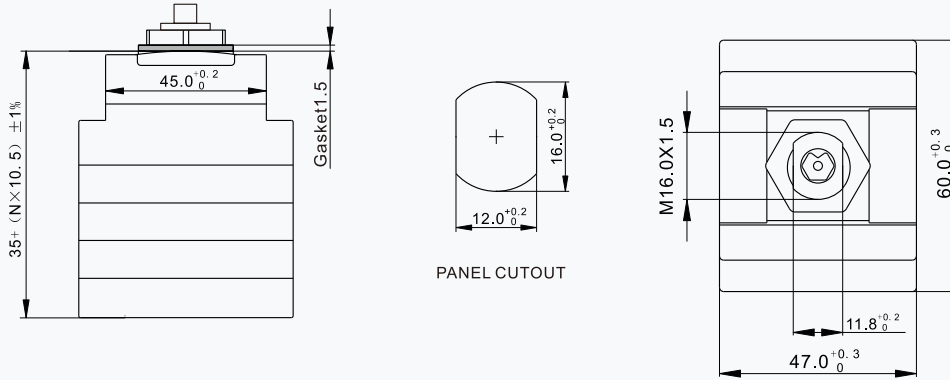
Name	Type	Diagram										
<p>Conventional operating handle</p>	<p>BYSS.1-50 BYSS.1-50/T BYSS.2-50</p>											
<p>Long lever operating handle</p>	<p>BYSS.2-50</p>	 <table border="1" data-bbox="1070 1435 1358 1626"> <thead> <tr> <th>Poles</th> <th>H(min.-max.)</th> </tr> </thead> <tbody> <tr> <td>2P</td> <td>130mm-280mm</td> </tr> <tr> <td>4P</td> <td>150mm-300mm</td> </tr> <tr> <td>6P</td> <td>170mm-320mm</td> </tr> <tr> <td>8P</td> <td>190mm-340mm</td> </tr> </tbody> </table>	Poles	H(min.-max.)	2P	130mm-280mm	4P	150mm-300mm	6P	170mm-320mm	8P	190mm-340mm
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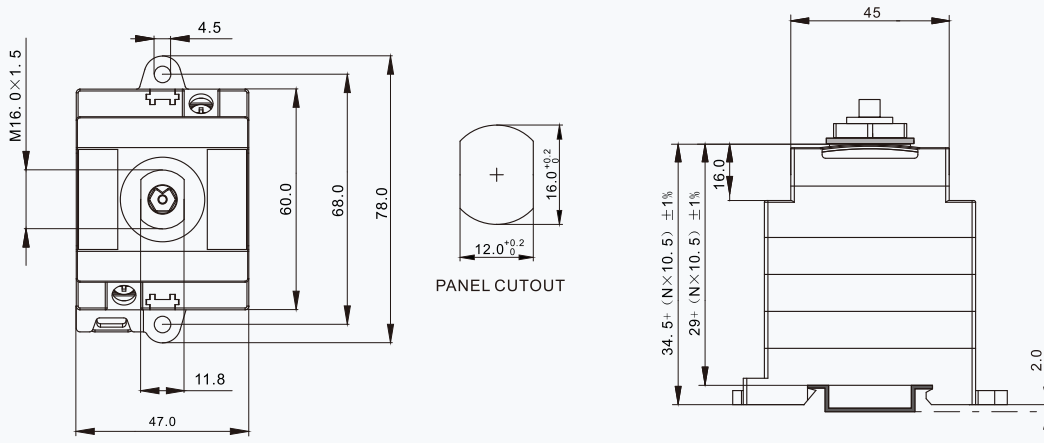
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Dimensions(mm)

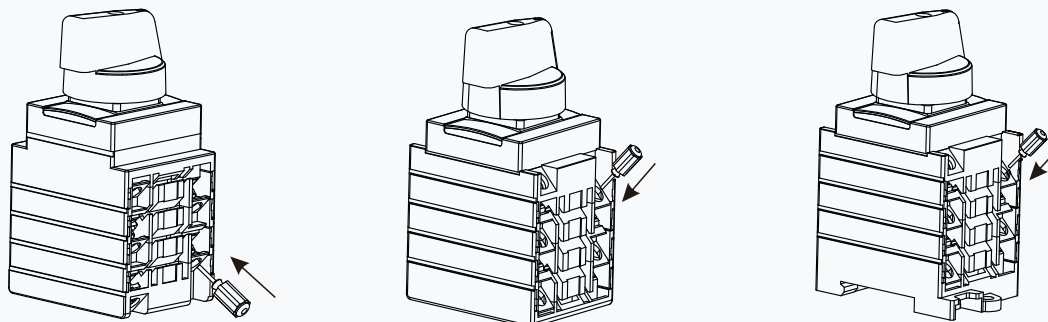
BYSS.1-50



BYSS.2-50



Wiring direction



BYSS.1-50

BYSS.1-50/T

BYSS.2-50

Connection capability

Number of cable	Terminal material	Wire range(AWG/mm ²)	Tightening torque terminal screws
1	Cu	12 AWG-6AWG /2.5~10mm ²	1.8Nm