

BYSS series

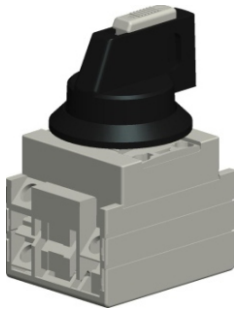
DC ISOLATOR SWITCHES



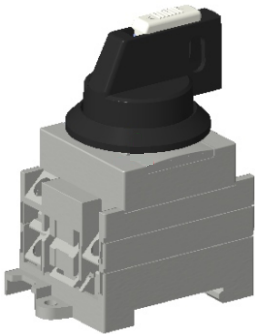
UL508i Certificate Number: E482690

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

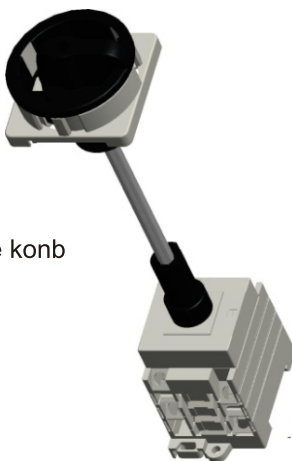
BYSS.1-50/T-1500V



BYSS.2-50-1500V



BYSS.2-50-1500V
with S type handle knob

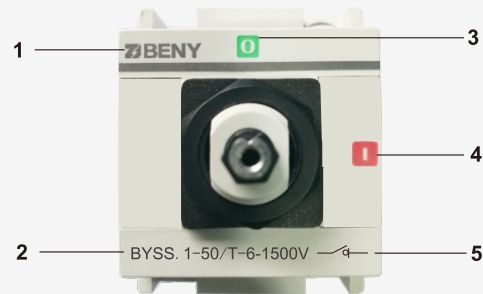


Application

BYSS series DC disconnect switch in UL version is the best DC switch solution for solar inverter integrated.

- The first DC switch UL508i certificate in China.
- 2P switch at max DC 1500V/13A per conductor.
- With special arcing extinguish instruction and patent, for reliable and fast cutting off the DC arcing.
- The series are suitable for multiple independent MPPTs.
- Lockable handle for safer application and system maintain.

Appearance Introduction



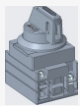
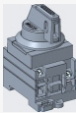
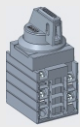
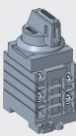
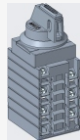
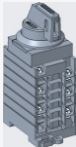
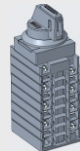

Type Instruction

BY	SS	. 1	-	50/T	-2	-	1500V
		. 2	-	50	-2	-	
Manufacturer Code	Product Code	Mounting	Max Rated Current	Pole	Rated Voltage		
ZJBENY	Product Code	.1:Panel Mounting .2:Standard Din rail	50A	2P,4P,6P, 8P	1500V		


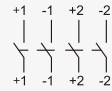
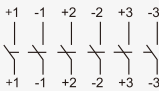
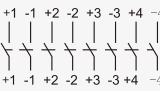

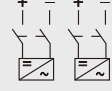


Parameter

Electrical Characteristics		
Rated Working Voltage	Ue	Details in diagram
Rated Current	Ie	Details in diagram
Rated impulse withstand voltage	Uimp	8kV
Rated short-time withstand current (1s)	Icw	1.5kA
Rated short-circuit making capacity	Icm	2.0kA
Standard Short Circuit Rating		5kA
High-Fault Short Circuit Rating		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.M4	1.2N • m-1.8N • m	
Tightening torque panel mounting nut, min. - max.	2.4N • m-2.6N • m	
Tightening torque M3 screw in the standard black knob, min.-max.	0.5N • m-0.7N • m	
Tightening torque M3 screw in the Extension rod type knob, min.-max.	1.5N • m-1.8N • m	
Ambient temperature allowed between	-40°C ~ +85°C	
Storage temperature allowed between	-40°C ~ +85°C	
Relative Humidity	90%	
Pollution degree	2	
IP Class Protection	≥IP66 (Type 4X)	

Parameter

TYPE		Rated Current (UL508i)		Poles in series	Number of Strings
		1500V			
 BYSS.1-50/T-2-1500V	 BYSS.2-50-2-1500V Type S knob available	13A		2	1
 BYSS.1-50/T-4-1500V	 BYSS.2-50-4-1500V Type S knob available	13A		2	2
 BYSS.1-50/T-6-1500V	 BYSS.2-50-6-1500V Type S knob available	13A		2	3
 BYSS.1-50/T-8-1500V	 BYSS.2-50-8-1500V Type S knob available	13A		2	4

Switching Configurations

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

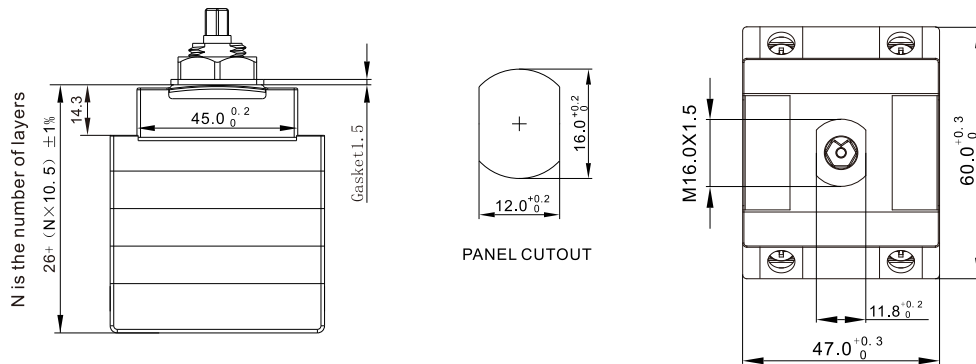
Operation knob type

PICTURE	Suitable Type	Structure details										
	<p>BYSS.1-50/T-1500V BYSS.2-50-1500V</p>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Lockable</p>  <p>mounting panel</p> </div> <div style="text-align: center;">  <p>1.5~3mm</p> </div> </div> <div style="text-align: center; margin-top: 20px;"> <p>lock position (Switch Off, then Shift forth the indicator)</p>  </div>										
 <p>S type handle knob</p>	<p>Only for BYSS.2-50-1500V</p>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  </div> <div style="text-align: center;">  <p>H</p> </div> </div> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Type</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>	Type	H(min. -max.)	2P	130mm-280mm	4P	150mm-300mm	6P	170mm-320mm	8P	190mm-340mm
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4P	150mm-300mm											
6P	170mm-320mm											
8P	190mm-340mm											

Dimensions(mm)

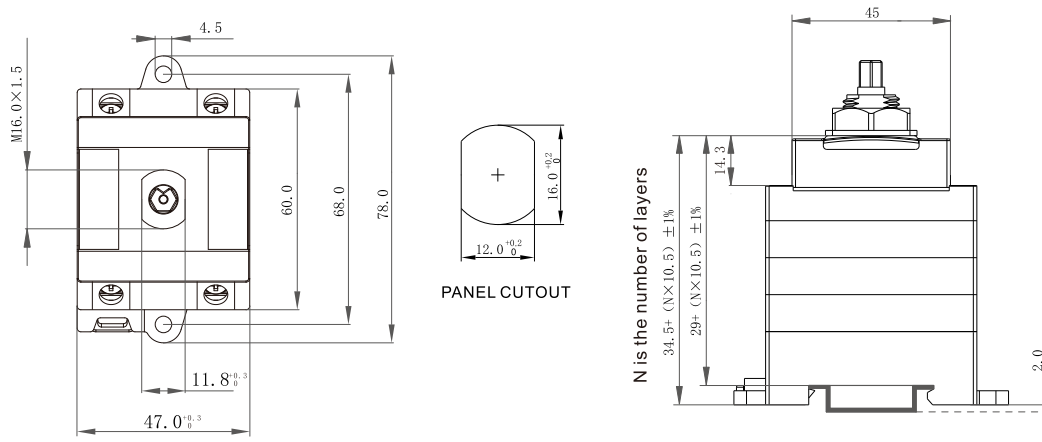
BYSS.1-50/T Series

mm



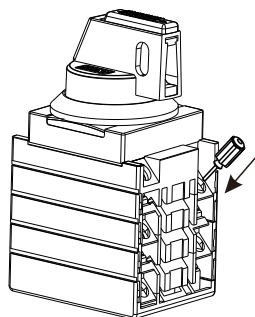
BYSS.2-50 Series

mm

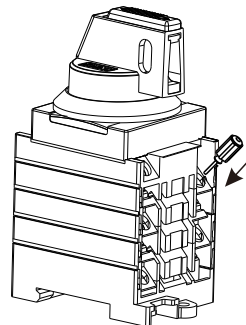


Wiring direction

BYSS.1-50/T-1500V



BYSS.2-50-1500V



Wiring Ratings

Wires per pole	Conductor material	Wire size(AWG, mm ²)	Torque
1	Copper (Cu)	12 AWG-6 AWG / 2.5mm ² ~10.0mm ²	1.8N·m