

BYSS.2

Series DC Isolator Switches

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BYSS.2 Series

DC Isolator Switches



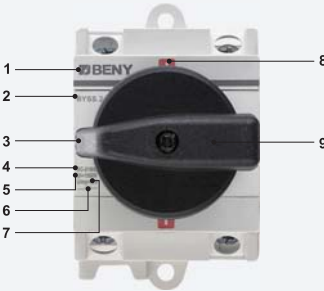
IEC/EN 60947-3:2015

- 1 Brand
- 2 Type
- 3 OFF
- 4 Application
- 5 Insulation voltage
- 6 Rated impulse withstand voltage
- 7 Rated Current
- 8 ON
- 9 Knob

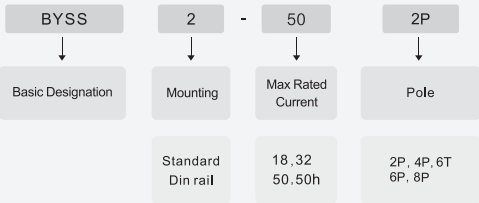
Application

ZIBENY BYSS Series DC disconnect switch is used in 1-200KW solar inverter, 2P for 1 load up to 1200V 50A or 1600V16A, low temperature rising, long work life and short arcing time. For Multiple independent MPPTs.

Appearance Introduction



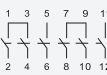
Type Instruction



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
Rated conditional short-circuit current(kA)		8kA
Installation Environment		
Utilizatin category DC		DC-PV2
Number of cycles of operation(with current)		300
Number of cycles of operation(without current)		10000
Operation rate		120/h
Pole		2/4/6/8
Mounting		Standard Din rail
Tightening torque terminal screws M4, min.-max.		1.2N·m~1.8N·m
Tightening torque panel mounting nut, min.-max.		2.5N·m±0.1N·m
Tightening torque M3 screw in the knob,min.-max.		0.5N·m~0.7N·m
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		IP66
Wiring rating	14 AWG-8 AWG, Stranded	2.5mm²~10.0mm²

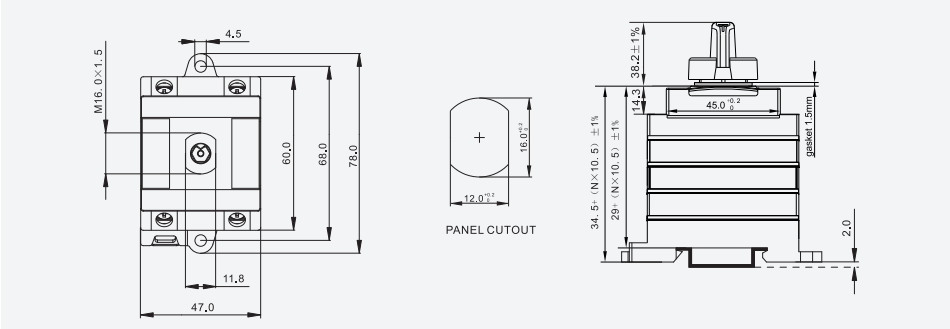
Wiring Diagram

	Type	Contact Configuration							Poles in series	Number of Strings	
			800V	1000V	1200V	1350V	1400V	1500V			1600V
	BYSS.2-18 2P		25A	18A	15A					2	1
	BYSS.2-32 2P		40A	32A	25A					2	1
	BYSS.2-50 2P		50A	50A	40A			16A		2	1
	BYSS.2-50h 2P				50A	40A	35A	30A	16A	2	1
	BYSS.2-18 4P		25A	18A	15A					2	2
	BYSS.2-32 4P		40A	32A	25A					2	2
	BYSS.2-50 4P		50A	50A	40A			16A		2	2
	BYSS.2-50h 4P				50A	40A	35A	30A	16A	2	2
	BYSS.2-18 6P		25A	18A	15A					2	3
	BYSS.2-32 6P		40A	32A	25A					2	3
	BYSS.2-50 6P		50A	50A	40A			16A		2	3
	BYSS.2-50h 6P				50A	40A	35A	30A	16A	2	3
	BYSS.2-50 6T				50A			40A		3	2
	BYSS.2-18 8P		25A	18A	15A					2	4
	BYSS.2-32 8P		40A	32A	25A					2	4
	BYSS.2-50 8P		50A	50A	40A			16A		2	4
	BYSS.2-50h 8P				50A	40A	35A	30A	16A	2	4

Switching Configurations

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

Dimensions(mm)



DC Isolator Sizing Guide

DC-PV2 Ratings by Voltage, min Cables size and Temperature °C

1 pole Rating

BYSS.1-18 / BYSS.2-18
DC-PV2

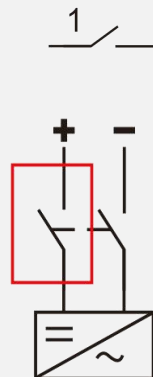
Ue	I_e/I_{th} +40°C Shade Ambient Unenclosed	4*IeA I and Ic	I_{th} Solar +60°C Shade Ambient Enclosed	Min Cable Size for rating
300V	25	100	25	4mm ²
600V	15	60	15	2.5mm ²
800V	6.2	25	6.2	1.5mm ²
1000V	4.5	18	4.5	1.5mm ²
1200V	3.7	15	3.7	1.5mm ²

BYSS.1-32 / BYSS.2-32
DC-PV2

Ue	I_e/I_{th} +40°C Shade Ambient Unenclosed	4*IeA I and Ic	I_{th} Solar +60°C Shade Ambient Enclosed	Min Cable Size for rating
300V	40	160	40	10mm ²
600V	25	100	25	4mm ²
800V	10	40	10	1.5mm ²
1000V	8	32	8	1.5mm ²
1200V	6.25	25	6.25	1.5mm ²

BYSS.1-50 / BYSS.2-50 / BYSS-50
DC-PV2

Ue	I_e/I_{th} +40°C Shade Ambient Unenclosed	4*IeA I and Ic	I_{th} Solar +60°C Shade Ambient Enclosed	Min Cable Size for rating
300V	50	200	50	10mm ²
600V	40	160	40	10mm ²
800V	15	60	15	2.5mm ²
1000V	12.5	50	12.5	2.5mm ²
1200V	8.7	35	8.7	1.5mm ²
1500V	4	16	4	1.5mm ²



2 poles in series Ratings

BYSS.1-50 / BYSS.2-50 / BYSS-50
DC-PV2

Ue	I_e/I_{th} +40°C Shade Ambient Unenclosed	4*IeA I and Ic	I_{th} +40°C Shade Ambient Dedicated Enclosure IP66NW	I_{th} +60°C Shade Ambient Dedicated Enclosure IP66NW	Min Cable Size for rating
300V	50	200	50	50	10mm ²
600V	50	200	50	50	10mm ²
800V	50	200	50	50	10mm ²
1000V	50	200	50	50	10mm ²
1200V	40	160	40	40	10mm ²
1500V	16	64	16	16	2.5mm ²

