

# BYT.2

## Series DC Isolator Switches

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# BYT.2 Series

## DC Isolator Switches



Accessories

### Application

**ZIBENY** BYT.2 series DC Isolator Switches are applied to 1-20KW Inverter, Controller, DC Combiner Box, used for Residential or Commercial PV solar power system(on-grid/off-grid). Arcing time less than 3ms, that make PV solar system effectively disconnected.

### BYT.2-32 DC Isolator Switches

- DIN Rail Mounting
- BYT.2 -32 Rated Voltage 1200V DC
- OFF LOCKABLE
- Flame-Retardant
- Arcing Time < 3ms
- IEC60947-3
- 4Poles(Single|Double Strings Available)
- DC-21B: 16A,25A,32A up to 1200V DC

### BYT.2-32 DC Isolator Switches

- DIN Rail Mounting Door Clutch
- BYT.2-32 Rated Voltage 1200V DC
- OFF LOCKABLE
- Flame-Retardant
- Arcing Time < 3ms
- IEC60947-3
- 4 poles(Single|Double Strings Available)
- DC-21B: 16A,25A,32A up to 1200V DC

### Parameter

Electrical Characteristics	
Type	BYT.2-32
Function	Isolator, Control
Standard	IEC60947-3, AS60947.3
Utilization category	DC-PV2 / DC-21B
Pole	4P
Rated frequency	DC
Rated operational voltage ( $U_e$ )	600V, 800V, 1000V, 1200V
Rated operational current ( $I_e$ )	See the next page
Rated insulation voltage ( $U_i$ )	1200V
Conventional free air thermal current ( $I_{th}$ )	II
Conventional enclosed thermal current ( $I_{the}$ )	Same as $I_e$
Rated short-time withstand current ( $I_{cw}$ )	1kA, 1s (4, 4S, 4B); 1.7kA, 1s (2H)
Rated short-time making capacity ( $I_{cm}$ )	1.7kA, (4, 4S, 4B); 3kA, (2H)
Rated conditional short-circuit current ( $I_{cn}$ )	3kA
Rated impulsive withstand voltage ( $U_{imp}$ )	8.0kV
Overvoltage category	II
Suitability for isolation	Yes
Polarity	No polarity, "+" and "-" polarities could be interchanged.
Service Life/Cycle Operation	
Mechanical	15000
Electrical	1000
Installation Environment	
Ingress Protection	IP20
Storage Temperature	-40°C ~ +85°C
Mounting Type	Vertically or horizontally
Pollution degree	3
Suitable environment	Indoor

Identification	Rating data		
Switch, unenclosed - catalogue number (with DC-PV2 rating)	BYT.1-32, BYT.2-32		
Specific dedicated individual enclosure - catalogue number (with minimum IP56NW rating)	BYT-32 IP66NW		
Assembly of switch and specific dedicated individual enclosure - catalogue number	/		
$I_{th}$ rated thermal current, unenclosed, at 40°C shade ambient air temperature	32 amps		
$I_{the}$ rated thermal current, indoors, at 40°C shade ambient air temperature, in a specific dedicated enclosure	32 amps		
$I_{the}$ rated thermal current <u>outdoors</u> at 40°C shade ambient air temperature <u>without solar effects</u> in a specific dedicated enclosure rated IP66NW	32 amps		
$I_{the}$ solar current value outdoors at 60°C shade ambient air temperature (see D.8.3.11, table D3), with solar effects in a specific dedicated enclosure rated IP66NW	29 amps		
	$U_o$ rated operational voltage DC Volts	$I_o$ ; DC-PV2 rated operational current Amps	$I_{(make)}$ and $I_{c(break)}$ DC-PV2 4 x $I_o$ Amps
2 pole ( _1/_2/_ )	≤600	32	128
	800	13	52
	1000	9	36
	1200	9	36
4 pole ( _1/_2/_3/_4/_ )	≤600	32	128
	800	32	128
	1000	32	128
	1200	32	128

NOTE 1 The rating data in the table is example data, it is intended to be replaced by the relevant actual data.

NOTE 2 The ratings section of this table for  $U_o$ ,  $I_o$  and  $I_{(make)}$  and  $I_{c(break)}$  may have other number of poles or pole configurations than that shown, based on the test evidence obtained.

NOTE 3 The other data required in D.5.2.4 need not be in a table format.

### Wiring Diagram for Rated operational voltage $U_e$ (V) & Rated operational current $I_e$ (A)

Contacts wiring diagram	600V	800V	1000V	1200V	Poles in series	Number of Strings	Type Number	Weight kg/PCS
	32A	13A	9A	9A	2	2	4	0.70
	40A	/	/	/	2	1	2H	0.70
	32A	32A	32A	32A	2	1	4B	0.70
	32A	32A	32A	32A	4	1	4S	0.70

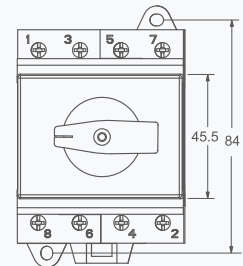
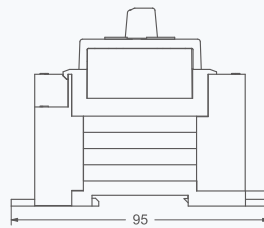
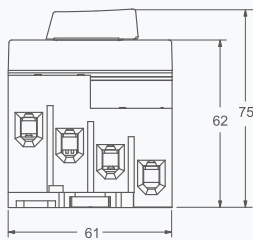
# BYT.2 Series PV DC Isolator Switches

## Switching Configurations

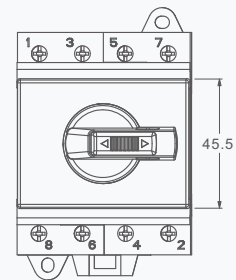
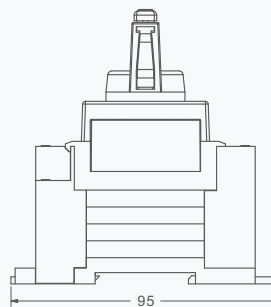
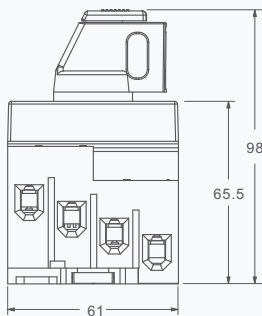
Type	4-pole	2-pole 4 Paralleled Poles	4-pole with Input and Output bottom	4-pole with Input on top Output bottom
/	4	2H	4B	4S
Contacts Wiring graph				
Switching example				

## Dimensions(mm)

BYT.2-32  
DIN Rail Mounting



BYT.2-32  
DIN Rail Mounting  
Lockable handle



BYT.2-32  
DIN Rail Mounting  
Door Clutch  
Lockable handle

