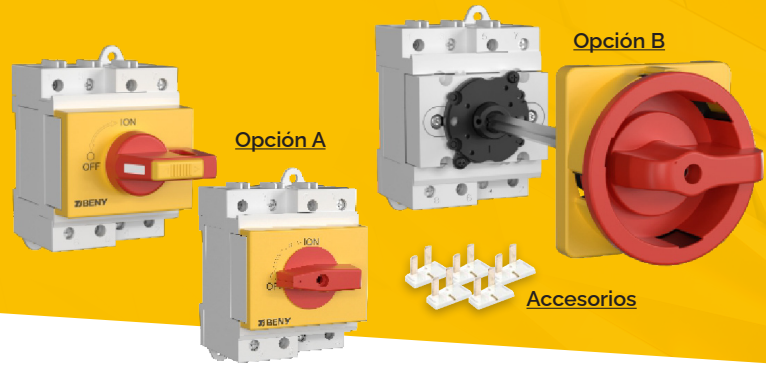


# solitia



## BYT.2 Series

DC Isolator Switches



### Application

BYT.2 series DC Isolator Switches are applied to 1-30KW Inverter, Controller, DC Combiner Box, used for Residential/Commercial PV solar power system (on-grid/off-grid). Arcing time <3ms, that make PV solar system effectively disconnected.

### BYT.2-32 DC Isolator Switches

#### Opción A

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

#### Opción B

DIN Rail Mounting  
 BYT.2-32 Rated Voltage 1200V DC  
 OFF LOCKABLE  
 Flame-Retardant  
 Arcing Time < 3ms  
 IEC60947-3  
 4 Poles (Single|Double Strings Available)  
 DC-PV2: 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
Pole	4P
Rated frequency	DC
Rated operational voltage ( $U_e$ )	300V, 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 ( $I_{th(e)}$ )	Same as $I_e$
Rated short-time withstand current ( $I_{sw}$ )	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.2-32		
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		
$I_{th(e)}$ rated thermal current, indoors, at 40°C shade ambient air temperature, in a specific dedicated enclosure	32 amps		
$I_{th(e)}$ rated thermal current outdoors at 40°C shade ambient air temperature without solar effects in a specific dedicated enclosure rated IP66NW	32 amps		
$I_{th(e)}$ 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		
	$U_e$ rated operational voltage DC Volts	$I_e$ ; DC-PV2 rated operational current Amps	$I_{(make)}$ and $I_{(break)}$ DC-PV2 4 x $I_e$ Amps
2 pole ( _ / _ / _ / _ )	≤600	32	128
	800	13	52
	1000	9	36
	1200	9	36
4 pole ( _ / _ / _ / _ / _ / _ )	≤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  $U_e$ ,  $I_e$  and  $I_{(make)}$  and  $I_{(break)}$  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 in the table is example data, it is intended to be replaced by the relevant actual data.

Product specifications are subject to change without further notice.

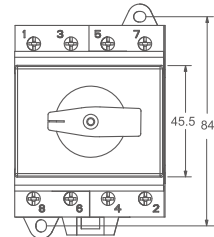
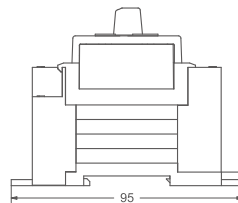
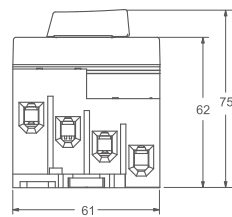
## Wiring Diagram for Rated operational voltage Ue(V) & Rated

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

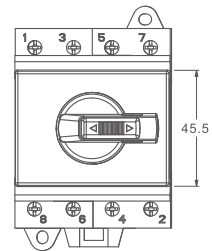
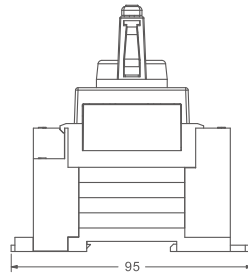
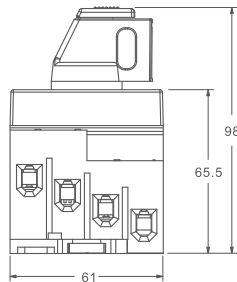
## Switching Configurations

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				

BYT.2-32  
DIN Rail Mounting



BYT.2-32  
DIN Rail Mounting  
Lockable handle



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

