

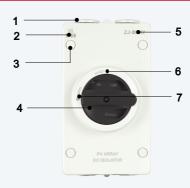
Application

Volta-Switch DC Isolator Switch in plastic enclosure is applied 1~20KW Residential or Commercial Photovoltaic system, placed between photovoltage modules and inverters. Arcing time less than 3ms, that keep solar system more safe. To ensure its stability and long service life, our products are made by components with optimum quality. Max voltage up to 1000V DC It holds a safe lead among similar products.

Feature

- IP66, UV Resistance
- Arcing Time < 3ms
- Earth Terminal
- IEC60947-3, AS60947.3
- 2 Pole, 4 Poles Available(Single | Double String)
- DC-PV2 / DC-21B: 32A up to 1000VDC

Appearance Introduction



Parameter

Туре		BYH-32, BYH-32M1, BYH-32M2		
Function		Isolator, Control		
Standard		IEC60947-3, AS60947.3		
Utilization category		DC-PV2 / DC-21B		
Pole		4P		
Rated frequency		DC		
Rated operational vo	ltage (U₀)	500V, 600V, 800V, 1000V		
Rated operational cu	rrent (I _e)	See the next page		
Rated insulation volta	age (U _i)	1200V		
Conventional free air	thermal current(I _{th})	11		
Conventional enclose	ed thermal current(I _{the})	Same as $I_{\scriptscriptstyle m e}$		
Rated short-time with	stand current (I _{cw})	1kA,1s (4, 4S,4B); 1.7kA, 1s (2H)		
Rated short-time make	king capacity (I _{cm})	1.7kA,1s (4, 4S,4B); 3kA, 1s (2H)		
Rated conditional sho	ort-circuit current (I _{cn})	3kA		
Rated impulsed withs	stand voltage (U _{imp})	8.0kV		
Overvoltage category	1	II		
Suitability for isolation	n	Yes		
Polarity		No polarity, "+" and "-" polarities could be interchanged.		
Service Life/Cycle C	peration			
Mechanical		20000		
Electrical		2000		
Installation Environ	ment			
Ingress Protection	Enclsoure	IP66		
ingress Protection	Switch body	IP20		
Storage Temperature		-5°C ~ +85°C		
Mounting Type		Vertically or horizontally		
Pollution degree		3		
Suitable environment		Outdoor / Indoor		













- 1 Waterproof Plug
- IP66 Ingress Protection
- 3 Sealed Plug
- Knob 4
- 5 Brand
- ON 6
- OFF



BYH-32



Accessories



PV DC Isolator Switches

Identification		Rating data		
Switch, unenclosed - catalogue number (with DC-PV2 rating)	BYH.1-32, BYH.2-32			
Specific dedicated individual enclosure - catalogue number (with minimum IP56NW rating)	BYH-32 IP66NW			
Assembly of switch and specific dedicated individual enclosure - catalogue number	1			
Ith rated thermal current, unenclosed, at 40°C shade ambient air temperature	32 amps			
Ithe rated thermal current, indoors, at 40°C shade ambient air temperature, in a specific dedicated enclosure	32 amps			
Ithe rated thermal current <u>outdoors</u> at 40°C shade ambient air temperature <u>without solar</u> effects in a specific dedicated enclosure rated IP66NW	32 amps			
Ithe 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			
	U₅ rated operational voltage DC Volts	Ie; DC-PV2 rated operational current Amps	I _(make) and I _{c(break)} DC-PV2 4 x I _e Amps	
	≤500	32	128	
2 pole	600	13	52	
(<u>1</u> / <u>2</u> /)	800	9	36	
	1000	9	36	
Amala	≤500	32	128	
4 pole	600	32	128	
(_1/_2/_3/_4/)	800	32	128	
	1000	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 $I_{c(breaker)}$ 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.



PV DC Isolator Switches

Wiring Diagram for Rated operational voltage Ue (V) & Rated operational current le (A)

Contacts wiring diagram	500V	600V	800V	1000V	Poles in series	Number of Strings	Type Number	Weight kg/PCS
1 3 5 7	32A	13A	9A	9A	2	2	4	0.70
1 3 5 7	40A	I	I	1	2	1	2Н	0.70
1 3 5 7	32A	32A	32A	32A	2	1	4B	0.70
1 3 5 7	32A	32A	32A	32A	4	1	48	0.70

Switching Configurations

Туре	4-pole	2-pole 4 Paralleled Poles	4-pole with Input and Output bottom	4-pole with Input on top Output bottom
1	4	2H	4B	48
Contacts Wiring graph	1 3 5 7	1 3 5 7	1 3 5 7	1 3 5 7
Switching example				†

Bridging links installation

installed incorrectly installed correctly

^{*} Please note that all connections (including bridging link connections) should be tightening before energization.



Terminals / connection

Туре		BYH-32, BYH-32M1, BYH-32M2		
Number of poles		4-pole		
Terminal designation, main circuit		1; 3; 5; 2; 4; 6; 7; 8		
Type of terminal, main circuit		Screw terminal		
Rated cross section area, main circuit		4.0-16mm ²		
Type of onductor		4-16mm² (Rigid: Solid or Stranded)		
		4-10mm ² (Flexible)		
Number of conductor	s per terminal	1		
Required preparation	of the conductor	Yes		
Stripping length (mm), main circuit	8mm		
Tightening torque (M	4) main circuit	Min: 1.2Nm		
Tightening torque (M4), main circuit		Max: 1.8Nm		

Dimensions(mm)



