1 Waterproof Plug
2 IP66 Ingress Protection
3 Sealed Plug
4 Type
5 Knob
6 BE LOCKABLE
7 Electrical Diagram
8 Brand
9 ON
10 OFF
11
Standard


## Application

ZBENY BYSS Series DC Isolator switch in plastic enclosure are applicable in 1-20KW Residential or Commercial Photovoltaic system, independent with inverter. This model are designed to keep solar system more safe, Max voltage up to 1500 V 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: 35A up to 1500VDC


## Appearance Introduction

|  |
| :--- |

## BYSS Series <br> PV DC Isolator Switches

## Identification

Rating data
Switch, unenclosed - catalogue number (with DC-PV2 rating)

BYSS.1-50, BYSS.2-50
Specific dedicated individual enclosure catalogue number (with minimum IP56NW rating)

BYSS-50 IP66NW

Assembly of switch and specific dedicated individual enclosure - catalogue number

Ith rated thermal current, unenclosed, at $40^{\circ} \mathrm{C}$ shade ambient air temperature

Ithe rated thermal current, indoors, at $40^{\circ} \mathrm{C}$ shade ambient air temperature, in a specific dedicated enclosure

Ithe rated thermal current outdoors at $40^{\circ} \mathrm{C}$ shade ambient air temperature without solar effects in a specific dedicated enclosure rated IP66NW

Ithe solar current value outdoors at $60^{\circ} \mathrm{C}$ shade ambient air temperature (see
D.8.3.11,table D3), with solar effects in a specific dedicated enclosure rated IP66NW

|  | $U$ rated operational voltage DC Volts | $\begin{aligned} & \text { le; DC-PV2 } \\ & \text { rated } \\ & \text { operational } \\ & \text { current } \\ & \text { Amps } \end{aligned}$ | $\begin{gathered} I_{\text {(make) })} \text { and } \\ I_{(\text {l(break })} \\ \text { DC-PV2 } \\ 4 \times I_{e} \\ \text { Amps } \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| 2 pole $(1 / \underline{2} / \underline{)}$ | $\leq 300$ | 50 | 200 |
|  | 600 | 50 | 200 |
|  | 1000 | 50 | 200 |
|  | 1200 | 25 | 100 |
|  | 1500 | 16 | 64 |
| 4 pole $(1 / 2 / 3$ | $\leq 300$ | 50 | 200 |
|  | 600 | 50 | 200 |
|  | 1000 | 50 | 200 |
|  | 1200 | 50 | 200 |
|  | 1500 | 35 | 140 |

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 $I_{(\text {make })}$ and $I_{c(\text { breaker })}$ 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.

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## BYSS Series

PV DC Isolator Switches

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

| Contacts wiring diagram | 600V | 1000V | 1200V | 1500V | Poles in series | Number of Strings | Type Number | Weight kg/PCS |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $1 \begin{array}{lll}1 & 5 & 7\end{array}$ |  |  |  |  |  |  |  |  |
| $1111$ | 50A | 50A | 25A | 16A | 2 | 2 | 4 | 0.70 |
| $\dagger_{2} \prod_{4} \prod_{6}^{+} \prod_{8}^{-}$ |  |  |  |  |  |  |  |  |
| $\begin{array}{llll}1 & 3 & 5\end{array}$ |  |  |  |  |  |  |  |  |
| $\sqrt{\square}, \square$ | 50A | 50A | 50A | 35A | 4 | 1 | 4B | 0.70 |
| $\left.{\underset{2}{2}}_{1}^{1} f_{4}^{1}{\underset{6}{6}}_{1}^{1}\right\rangle_{8}^{1}$ |  |  |  |  |  |  |  |  |

## Switching Configurations

$\left.\begin{array}{c|c|cc}\text { Type } & \text { 4-pole } & \begin{array}{c}\text { 4-pole with Input } \\ \text { and }\end{array} \\ \text { Output bottom }\end{array}\right]$

## Bridging links installation

## installed correctly



[^0]
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## BYSS Series

## PV DC Isolator Switches

## Terminals / connection

Type
Number of poles
Terminal designation, main circuit
Type of terminal, main circuit
Rated cross section area, main circuit

Type of onductor


Number of conductors per terminal
Required preparation of the conductor
Stripping length (mm), main circuit

Tightening torque (M4), main circuit

BYSS-50
4-pole
1; 3; 5; 2; 4; 6; 7; 8
Screw terminal
$4.0-16 \mathrm{~mm}^{2}$
$4-16 \mathrm{~mm}^{2}$ (Rigid: Solid or Stranded)
$4-10 \mathrm{~mm}^{2}$ (Flexible)
1
Yes
8 mm
Min: 1.2 Nm
Max: 1.8 Nm

## Dimensions(mm)




[^0]:    * Please note that all connections (including bridging link connections) should be tightening before energization.

