## Application

24BENY BYT Series 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 3 ms , 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 1200V 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 1200VDC


## Appearance Introduction



## ZBENY

## BYT Series Non-polarity DC Isolator Switch

## Breathing Valve



Remarks:
ZJBENY DC Isolator has a breathing valve already, to avoid the condensation issue.

| 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 | / |  |  |
| Ith rated thermal current, unenclosed, at $40^{\circ} \mathrm{C}$ shade ambient air temperature | 32 amps |  |  |
| Ithe rated thermal current, indoors, at $40^{\circ} \mathrm{C}$ shade ambient air temperature, in a specific dedicated enclosure | 32 amps |  |  |
| Ithe rated thermal current outdoors at $40^{\circ} \mathrm{C}$ shade ambient air temperature without solar effects in a specific dedicated enclosure rated IP66NW | 32 amps |  |  |
| 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 | 29 amps |  |  |
|  | Ue rated operational voltage DC Volts | Ie; DC-PV2 <br> rated operational current Amps | $I_{\text {(make) }}$ and $I_{c(\text { break })}$ DC-PV2 $4 \times 1$ e Amps |
| 4-pole <br> 2 pole in series <br> 4 | 300 | 32 | 128 |
|  | 500 | 32 | 128 |
|  | 600 | 13 | 52 |
|  | 800 | 13 | 36 |
|  | 1000 | 9 | 36 |
|  | 1200 | 9 | 36 |
| $\begin{aligned} & \text { 2-pole } \\ & \text { 4 pole in series } \quad(1 / 2 / 3 / 4 /-) \\ & 4 \mathrm{~B} \end{aligned}$ | 300 | 32 | 128 |
|  | 500 | 32 | 128 |
|  | 600 | 32 | 128 |
|  | 800 | 32 | 128 |
|  | 1000 | 32 | 128 |
|  | 1200 | 32 | 128 |

## BYT Series Non-polarity DC Isolator Switch

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


## Switching Configurations

| Type | 4-pole | 2-pole 4 Paralleled Poles | 4-pole with Input and Output bottom |
| :---: | :---: | :---: | :---: |
| 1 | 4 | 2 H | 4B |
| Contacts Wiring graph | $\left.\right\|_{2} ^{1}-\left.\right\|_{4} ^{3}+\left.\right\|_{6} ^{5}-\left.\right\|_{8} ^{7}$ |  |  |
| Switching example |  |  |  |

## Bridging links installation

installed incorrectly



* Warning: Verify that all connections (including bridging link connections) are suitable for the rated current, prepared to ensure only conductive parts are clamped and tightened to the manufacturers required torque before energization.


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## BYT Series Non-polarity DC Isolator Switch

Terminals / connection

| Type | BYT-32, BYT-32M1, BYT-32M2, <br> BYT.1-32, BYT.2-32 |  |
| :--- | :---: | :---: |
| 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 | $4.0-16 \mathrm{~mm}^{2}$ |  |
| Type of onductor | $=$ | $4-16 \mathrm{~mm}^{2}$ (Rigid: Solid or Stranded) |
| Number of conductors per terminal | $4-10 \mathrm{~mm}^{2}$ (Flexible) |  |
| Required preparation of the conductor | 1 |  |
| Stripping length (mm), main circuit | Yes |  |
| Tightening torque (M4), main circuit | 8 mm |  |

IP Rating


Remarks:
ZJBENY DC Isolator can be installed in any direction, but must do well performance for waterproof.

## Dimensions(mm)



## BYT Series Non-polarity DC Isolator Switch

| Main Contacts |  | Type | BYT-32 | Appendix B5 |
| :---: | :---: | :---: | :---: | :---: |
| Rated thermal current $t_{\text {the }}$ <br> Rated insulation voltage $U_{i}$ <br> Distance of contacts (per pole) <br> Rated operational current le (DC-P |  | A <br> V <br> mm | $\begin{gathered} 32 \\ 1200 \\ 8 \end{gathered}$ |  <br> Breaking <br> $5 x$ <br> operations |
| $\begin{aligned} & 1 \text { pole } \\ & 1 \end{aligned}$ | 300 V | A | 25 | 100 |
|  | 400 V | A | 10 | 40 |
|  | 500 V | A | 8 | 32 |
|  | 600 V | A | 8 | 32 |
|  | 800 V | A | 3 | 12 |
|  | 1000V | A | 2 | 8 |
| 4-pole <br> 2 pole in series <br> 4 | 500V | A | 32 | 128 |
|  | 600 V | A | 32 | 128 |
|  | 700V | A | 13 | 52 |
|  | 800 V | A | 13 | 52 |
|  | 900 V | A | 9 | 36 |
|  | 1000V | A | 9 | 36 |
|  | 1200V | A | 9 | 36 |
| $\begin{aligned} & \text { 2-pole } \\ & \text { 4 parallel poles } \\ & 2 \mathrm{H} \end{aligned}$ | 500V | A | 40 | 160 |
|  | 600 V | A | 40 | 160 |
|  | 700V | A | 1 | 1 |
|  | 800 V | A | / | / |
|  | 900 V | A | 1 | 1 |
|  | 1000V | A | 1 | 1 |
|  | 1200V | A | 1 | 1 |
| 2-pole 4 pole in series 4B | 500 V | A | 32 | 128 |
|  | 600 V | A | 32 | 128 |
|  | 700V | A | 32 | 128 |
|  | 800V | A | 32 | 128 |
|  | 900 V | A | 32 | 32 |
|  | 1000V | A | 32 | 32 |
|  | 1200V | A | 32 | 32 |

