

— Switch To Safety! —

PEBS-L Series

(Battery Switch)

DC Miniature Circuit Breaker



Features

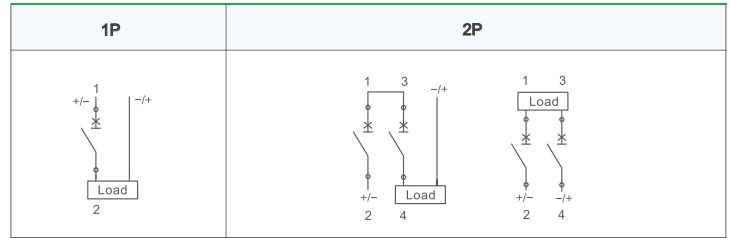
DC Miniature Circuit Breaker PEBS-L Series, with capacities of load isolation and over-load/short circuit protection, are designed for PV, energy storage and other DC applications, mainly placed between batteries and hybrid inverters. Max voltage up to 160VDC, current up to 125A. The main designing criteria of PEBS is to provide scientific arc extinguishing and flash barrier technology to fulfill quick and safe current interruption. Tested according to EN 60947-2, AS/NZS IEC 60947.2: 2015.

- Protection Functions: overload, short circuit.
- Rated short circuit breaking capacity Icu up to 10 kA.
- Non-polarity, Easy wiring.
- Rated Current In up to 125A.
- Rated Voltage Ue up to 160V.
- Designed for PV, energy storage and other DC applications.

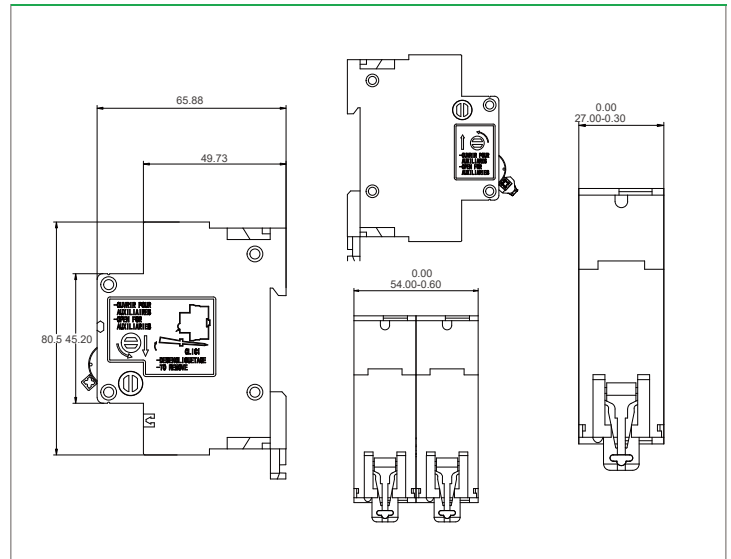
Select Code

| | | | | | |
|--------------------------------|---------------|---------------|----------------|--------|-------------|
| PEBS | a | b | c | c | L |
| PROJOY ELECTRIC BATTERY SWITCH | RATED VOLTAGE | RATED CURRENT | TRIPPING CURVE | POLES | LOW VOLTAGE |
| | 80V 160V | 125A / 63A | B / C | 1 2 | |

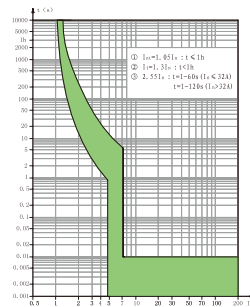
Contact Configuration



Dimensions

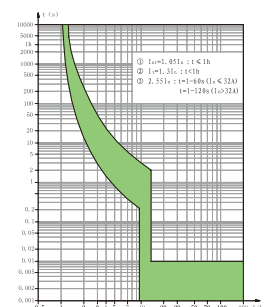


Tripping Characteristics



B Curve 4In(1±20%)

- Suitable for pure resistive load and microinductive circuit
- Available to rated current of 10A ~ 63A (63A Frame), 80A ~ 125A(125A Frame)
- Instantaneous tripping range: 4In±20%



C Curve 8In (1±20%)

- Suitable for general load and power distribution circuit
- Available to rated current of 10A ~ 63A (63A Frame), 80A ~ 125A(125A Frame)
- Instantaneous tripping range: 8In±20%

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Technical data

| According to EN60947-2, AS/NZS IEC 60947.2: 2015. | | |
|---|------------|--|
| Pole | | 1P 2P |
| Rated Working Voltage Ue | | 80V DC 80V DC / 160 V DC |
| Frame Current | | 63A, 125A |
| Rated Current In | 63A Frame | 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A |
| | 125A Frame | 63A, 80A, 100A, 125A |
| Rated Insulation Voltage Ui | | 500V |
| Rated Impulse Withstand Voltage Uimp | | 6kV |
| Tripping Characteristics | | B/C |
| Tripping Type | | Thermal Magnetic |
| Rated Ultimate Short-Circuit Breaking Capacity Icu | | 10kA |
| Rated Service Short-Circuit Interrupting Capacity Ics | | 7.5kA |
| Electrical Life | Actual | 10000 Cycles (63A Frame), 5000 Cycles (125A Frame) |
| | Standard | 1500 Cycles |
| Mechanical Life | Actual | 20000 Cycles (63A Frame), 10000 Cycles (125A Frame) |
| | Standard | 8500 Cycles |
| Overvoltage Category | | III |
| Pollution Degree | | 3 |
| Ingress Protection | | IP40; Wiring port IP20 |
| Resistance to humidity and heat | | Class 2 |
| Relative Humidity | | ≤ 95 % |
| Vibration | | acc. to IEC60068-2-6 |
| Shocks | | acc. to IEC60068-2-27 |
| Terminal capacity | | 2.5~35mm ² |
| Fastening Torque of Terminals | | 2.0 ~ 3.5 Nm |
| Ambient Temperature | | -30°C~70°C |
| Storage Temperature | | -40°C~85°C |
| Installation Method | | DIN |
| Elevation | | ≤2000m |
| | | Width: 18mm/pole (63A Frame), 27mm/pole (125A Frame) |
| Dimension | | High: 85mm |
| | | Depth: 74mm |
| Weight | | 0.12kg/Pole |

Package Information Storage

| Current | Pole | Box | Carton | Pallet | |
|---------|------|-----|--------|--------|---|
| 125A | 1P | 10 | 8 | 60 | Products should be stored in the warehouse where there is ventilation. The relative humidity there should not exceed 80%, and the ambient temperature there is between -40°C to + 85°C. In addition, there should not be acidic, alkaline and corrosive gas in the air. |
| | 2P | 5 | 8 | 60 | |
| 63A | 1P | 12 | 8 | 80 | Products should not be deposited more than 5 years in the above mentioned conditions since the producing date. |
| | 2P | 6 | 8 | 80 | |

Order Choosing Specification

| Client Information: | | | | | | | | | | Note: One pole for 80V, 2 poles for 80V or 160. | | | | | | |
|---------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|----------------------------|---|-----------------------------|------------------------------|----------------------------|----------------------------|---------------|--|
| Rated Current (A) | | | | | | | | Trip Type | | Voltage | | No. of Pole | | Quantity | Delivery Date | |
| 63A Frame | <input type="checkbox"/> 63 | <input type="checkbox"/> 50 | <input type="checkbox"/> 40 | <input type="checkbox"/> 32 | <input type="checkbox"/> 25 | <input type="checkbox"/> 20 | <input type="checkbox"/> 16 | <input type="checkbox"/> 10 | <input type="checkbox"/> B | <input type="checkbox"/> C | <input type="checkbox"/> 80 | <input type="checkbox"/> 160 | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | | |
| 125A Frame | <input type="checkbox"/> 125 | <input type="checkbox"/> 100 | <input type="checkbox"/> 80 | <input type="checkbox"/> 63 | | | | | <input type="checkbox"/> B | <input type="checkbox"/> C | <input type="checkbox"/> 80 | <input type="checkbox"/> 160 | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | | |
| 63A Frame | <input type="checkbox"/> 63 | <input type="checkbox"/> 50 | <input type="checkbox"/> 40 | <input type="checkbox"/> 32 | <input type="checkbox"/> 25 | <input type="checkbox"/> 20 | <input type="checkbox"/> 16 | <input type="checkbox"/> 10 | <input type="checkbox"/> B | <input type="checkbox"/> C | <input type="checkbox"/> 80 | <input type="checkbox"/> 160 | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | | |
| 125A Frame | <input type="checkbox"/> 125 | <input type="checkbox"/> 100 | <input type="checkbox"/> 80 | <input type="checkbox"/> 63 | | | | | <input type="checkbox"/> B | <input type="checkbox"/> C | <input type="checkbox"/> 80 | <input type="checkbox"/> 160 | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | | |

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