

## PEBS-H Series

(Battery Switch)

## DC Miniature Circuit Breaker



### Features

DC Miniature Circuit Breakers PEBS-H, with capacities of load isolation and overload/short circuit protection, are designed for PV, energy storage and other DC applications, mainly placed between batteries and hybrid inverters. Max voltage up to 1000VDC, current up to 63A. The main designing criteria of this circuit breakers 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.

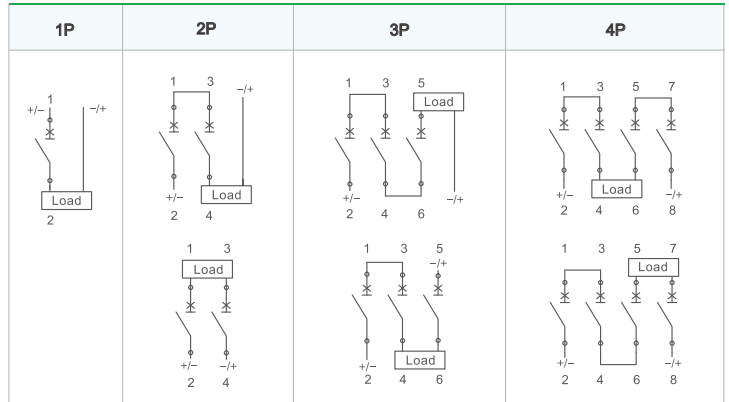
- Protection Functions: overload, short circuit
- Rated short circuit breaking capacity  $I_{cu}$  up to 6 kA
- Non-polarity, Easy wiring
- Rated Current  $I_n$  up to 63A
- Rated Voltage  $U_e$  up to 1000V
- Designed for PV, energy storage and other DC applications



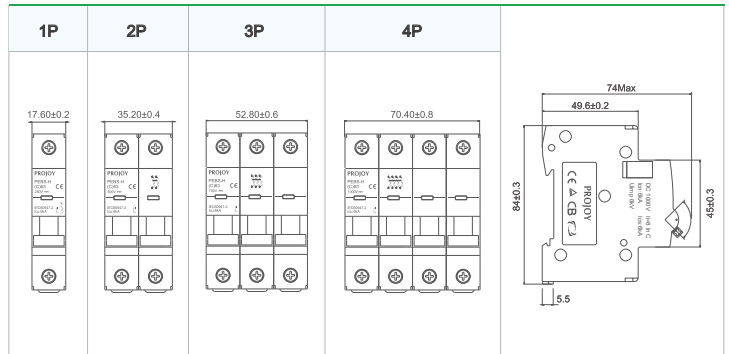
### Select Code

PEBS	a	b	c	d	H
PROJOY ELECTRIC BATTERY SWITCH	RATED VOLTAGE	RATED CURRENT	TRIPPING CURVE	POLES	HIGH VOLTAGE
	250V	63A / 50A	B / C	1	
	500V	40A / 32A		2	
	750V	25A / 20A		3	
	1000V	16A / 10A		4	

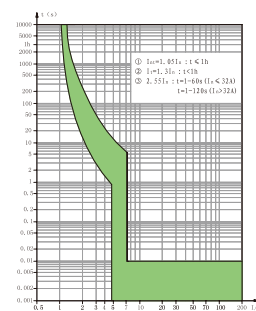
### Contact Configuration



### Dimensions

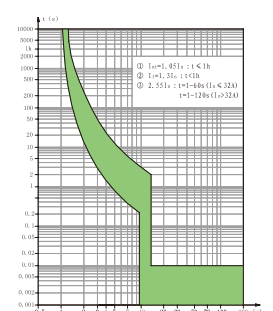


### Tripping Characteristics



B Curve 4In (±20%)

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



C Curve 8In (±20%)

- Suitable for general load and power distribution circuit
- Available to rated current of 10A ~ 63A(63A 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	3P	4P
Rated Working Voltage Ue	250 V DC	500 V DC	750 V DC	1000 V DC
Frame Current	63A			
Rated Current In	63A, 50A, 40A, 32A, 25A, 20A, 16A, 10A			
Rated Insulation Voltage Ui	1000V			
Rated Impulse Withstand Voltage Uimp	6kV			
Tripping Characteristics	B/C			
Tripping Type	Thermal Magnetic			
Rated Ultimate Short-Circuit Breaking Capacity Icu	6kA			
Rated Service Short-Circuit Interrupting Capacity Ics	6kA			
Electrical Life	Actual	10000 Cycles (63A Frame)		
	Standard	1500 Cycles		
Mechanical Life	Actual	20000 Cycles (63A 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 <sup>2</sup>			
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			
Dimension	Width: 17.6mm/pole (63A Frame)			
	High: 84mm			
	Depth: 74mm			
Weight	0.12kg/Pole			

### Package Information

### Storage

Current	Pole	Box	Carton	Pallet	
63A/32A	1P	12	8	80	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.  Products should not be deposited more than 5 years in the above mentioned conditions since the producing date.
	2P	6	8	80	
	3P	4	8	80	
	4P	3	8	80	

### Order Choosing Specification

#### Client Information:

Rated Current (A)								Trip Type		No. of Pole				Quantity	Delivery Date
<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"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4		
<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"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4		
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