

# BH-250 Series PV DC Isolation Switch



IEC/EN 60947-3  
GB/T 14048.3

- 1 Brand
- 2 Model
- 3 On Off
- 4 Rated Current
- 5 Nominal Insulation Voltage
- 6 Rated Withstand Voltage
- 7 Utilization Category
- 8 Auxiliary Contact
- 9 Lockable Handle
- 10 Rated Voltage
- 11 Certificate Mark
- 12 Electrical Symbol

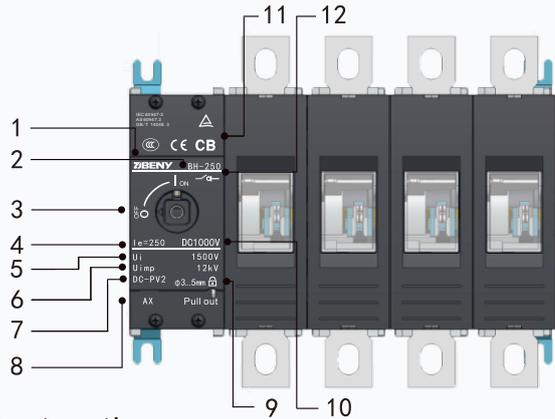


## Application

**ZIBENY** BH-250 DC disconnect switch is designed and developed for solar PV inverter, combiner box or any DC equipments build-in according to IEC60947-3. The DC load break switches provide safety isolation for one DC circuit up to 1500VDC 250 A.

High capacity 10KA for 50ms test and patented DC arc extinguishing chamber ensure fast disconnection and reliable operation for longer working life.

## Appearance Introduction



## Type Instruction

BH	-	250	-	4P	-	250A	-	A	-	AX
↓		↓		↓		↓		↓		↓
Model		Max Current		Pole		Rated Current		Assembling way		Auxiliary contact
PV DC Isolation Switch		250A		<input type="checkbox"/> 2P <input type="checkbox"/> 3P <input type="checkbox"/> 4P		<input type="checkbox"/> 80A <input type="checkbox"/> 100A <input type="checkbox"/> 125A <input type="checkbox"/> 160A <input type="checkbox"/> 200A <input type="checkbox"/> 250A		<input type="checkbox"/> Blank <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> A1 <input type="checkbox"/> B1		<input type="checkbox"/> without <input type="checkbox"/> with

## Parameter

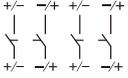
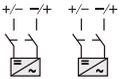
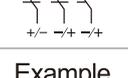
### Electrical Characteristics

Rated Working Voltage	Ue	1000V \ 1500V
Rated Current	Ie	250A
Rated impulse withstand voltage	Uimp	12kV
Rated short-time withstand current (1s)	Icw	8kA
Rated short-circuit making capacity	Icm	10kA
Rated conditional short-circuit current(kA)		10kA

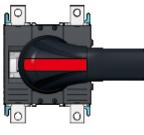
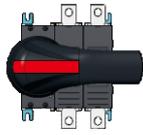
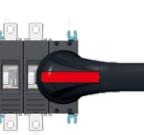
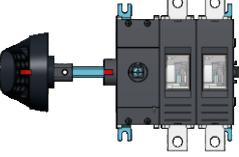
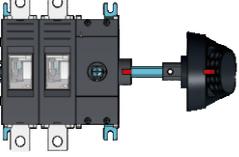
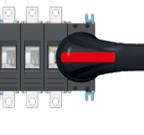
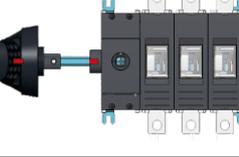
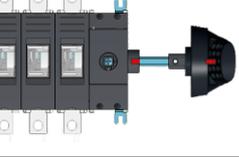
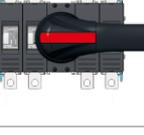
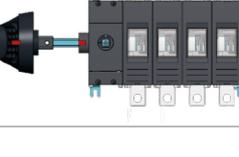
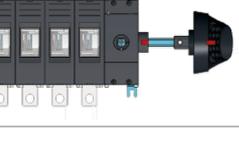
### Installation Environment

Utilization category DC		DC-PV2
Number of cycles of operation(With current)		$I_e \leq 100A$ 300 ; $100A < I_e$ 200
Number of cycles of operation(Without current)		10000
Pole		2\3\4
Mounting		Base Screws Mounting
Screws for mounting(M5)		2.0~3.0N.m
Wiring Screw(M8)		acc.IEC 60947-1 10~15N.m
Ambient temperature allowed between		-40°C ~ +80 °C
Storage temperature allowed between		-40°C ~ +85°C
Relative Humidity		90%
Pollution degree		3
IP rating terminals		IP20
Outside the ark handle		IP66

## Wiring Graph

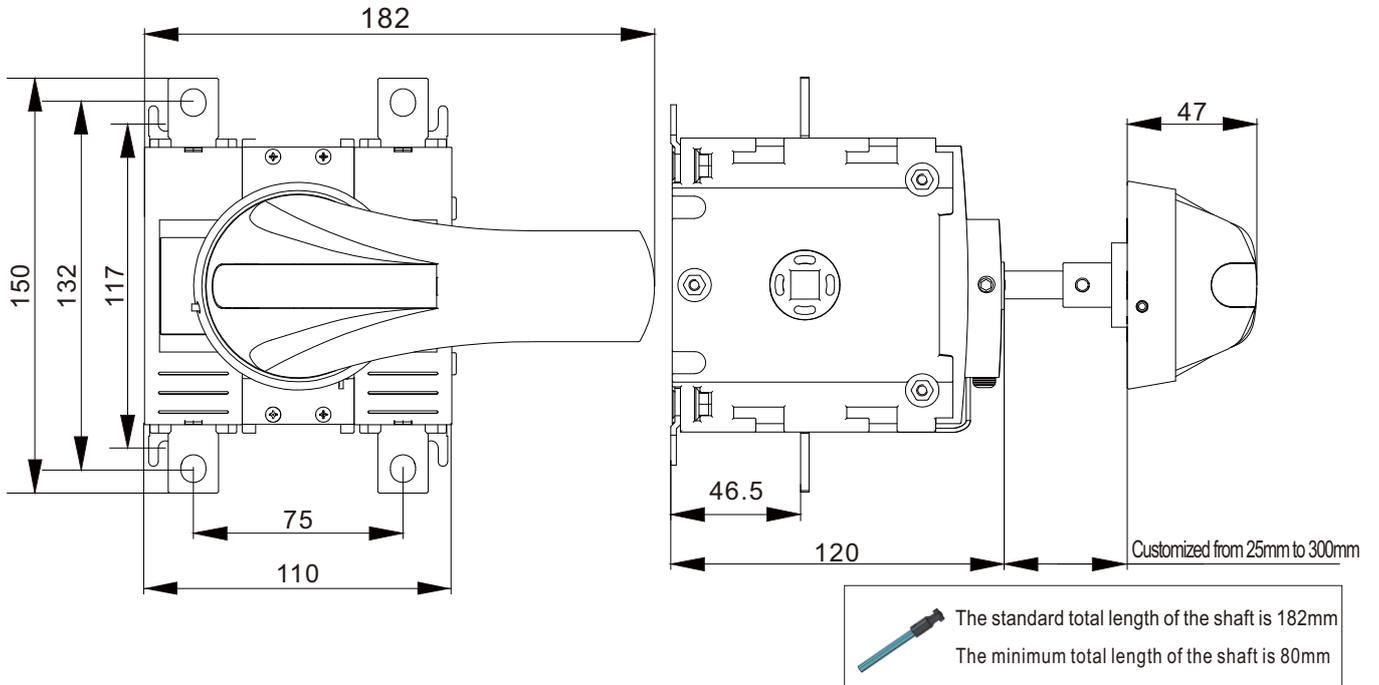
Model	Wiring Graph	Ue rated operational voltage DC Volts	Rated operational current	Poles in series	Number of Strings
BH-250-2P 		1000V	80A\100A\125A 160A\200A\250A	2	1
	Example 				
					
BH-250-4P 		1000V	80A\100A\125A 160A\200A\250A	2	2
	Example 				
					
BH-250-3P 		1500V	80A\100A\125A 160A\200A\250A	2	1
	Example 				
					

## Product Selection

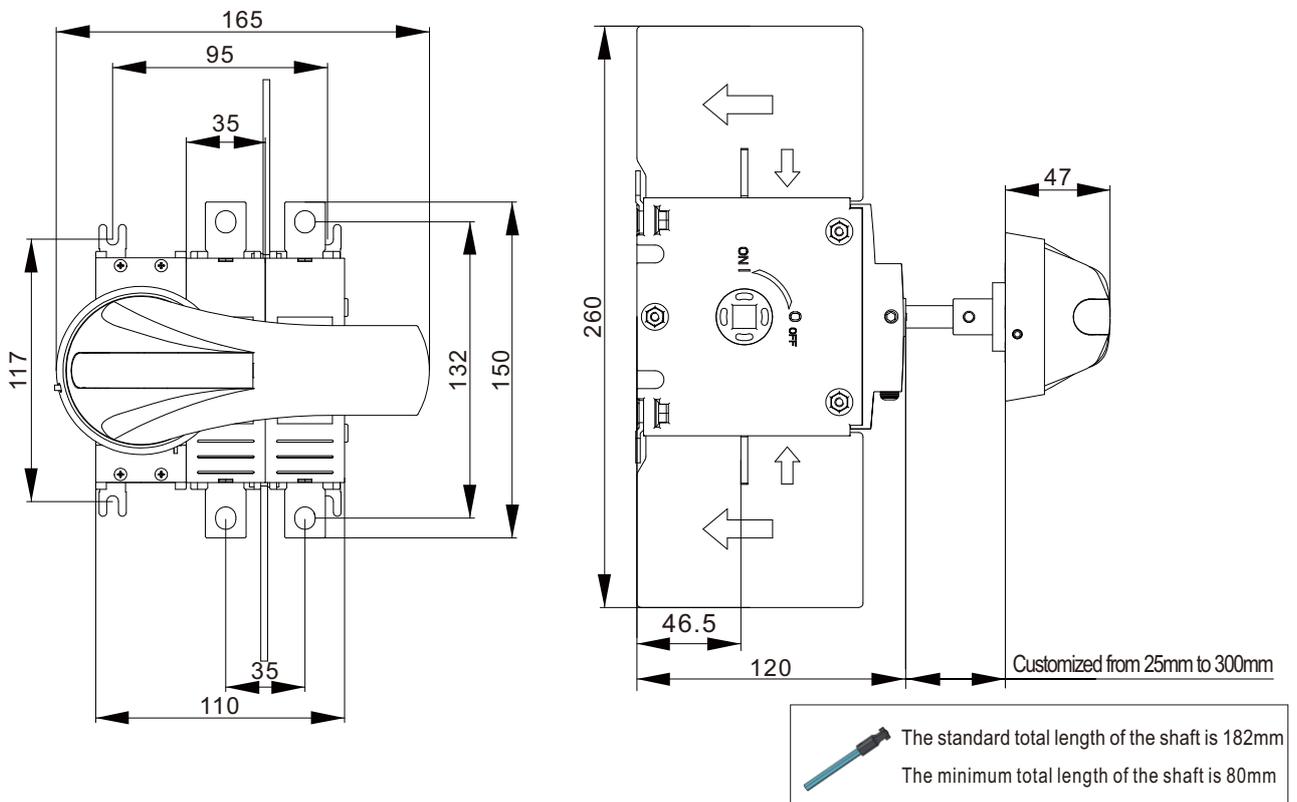
Model	Front Operation			The side operation	
	\	A	B	A1	B1
BH-250-2P					
BH-250-3P					
BH-250-4P					

**Dimension (mm)**

BH-250-2P

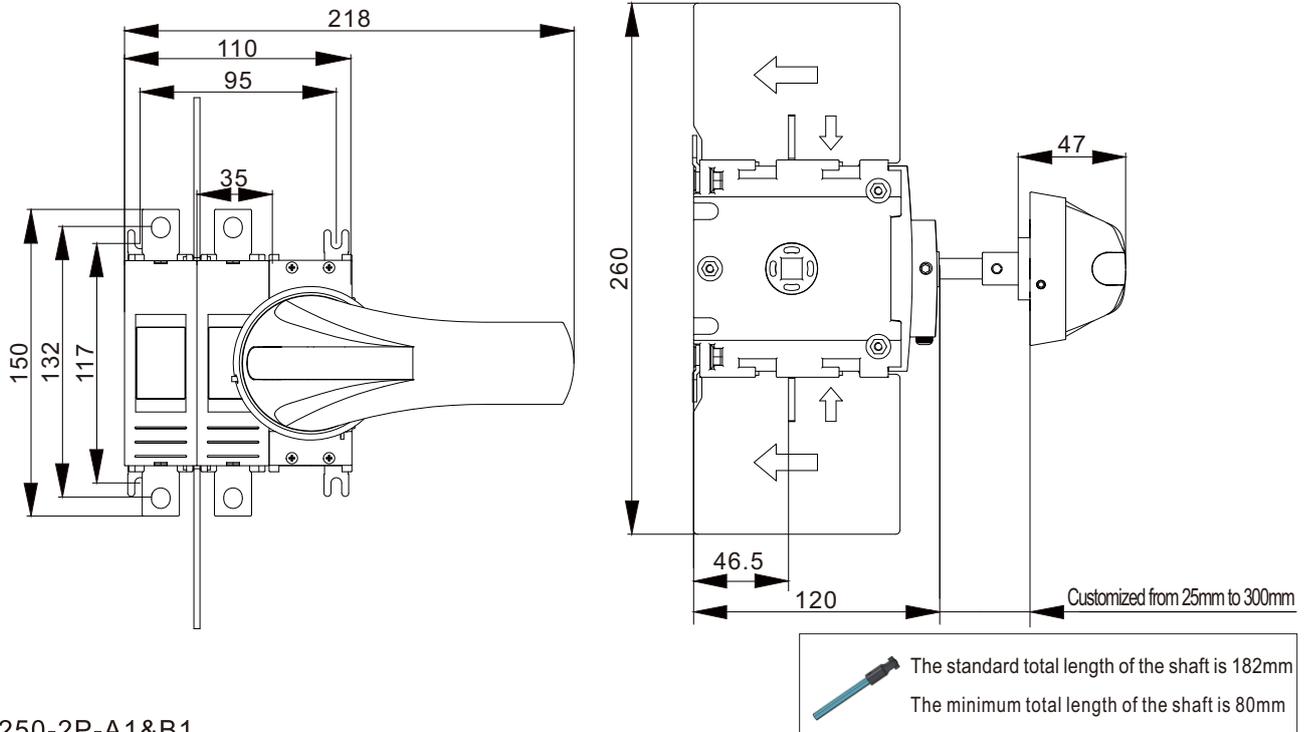


BH-250-2P-A

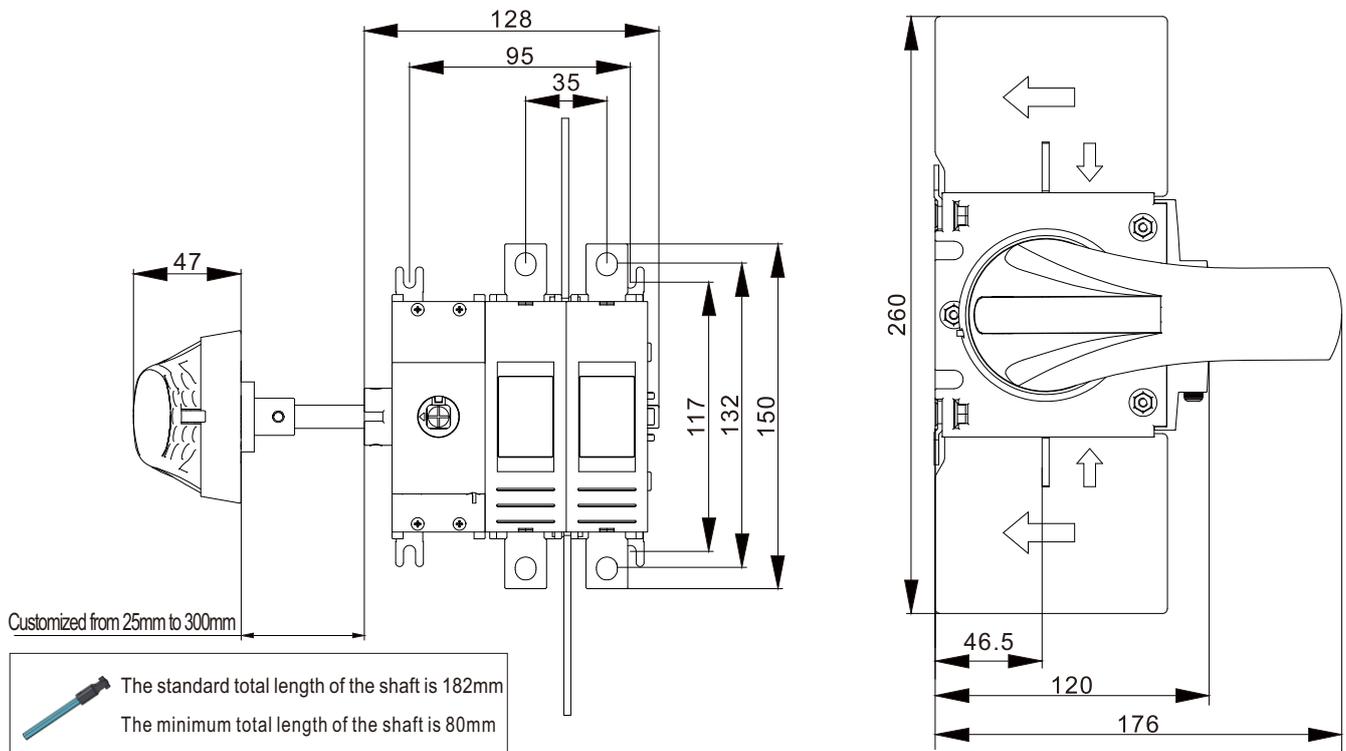


## Dimension (mm)

BH-250-2P-B

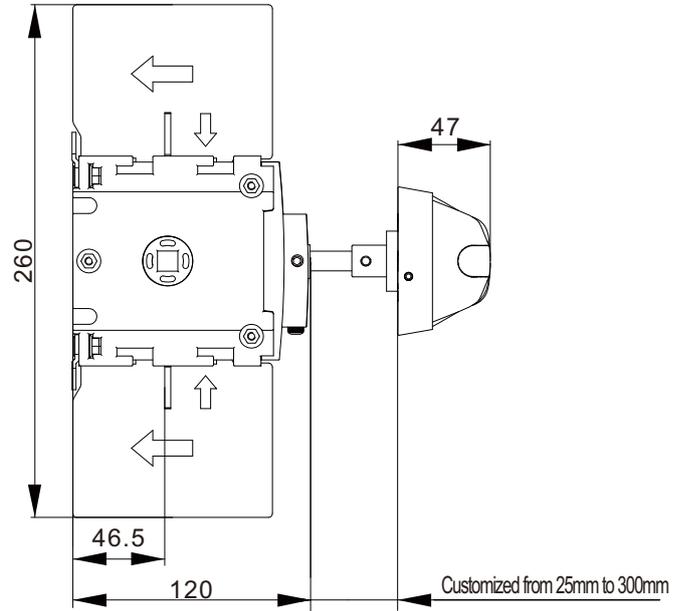
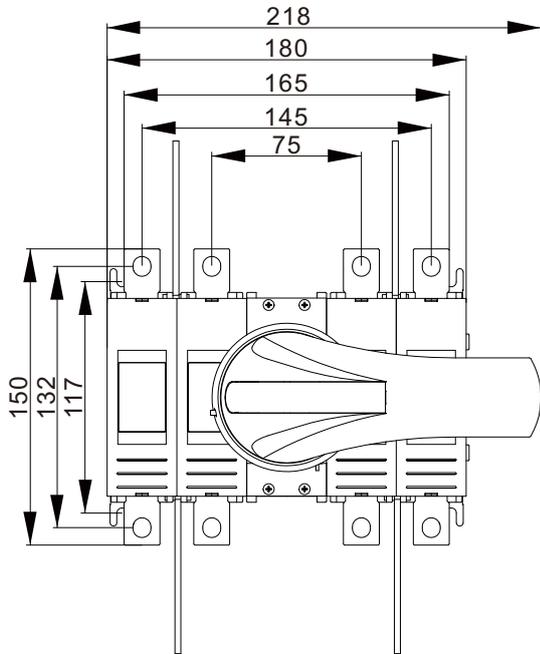


BH-250-2P-A1&B1



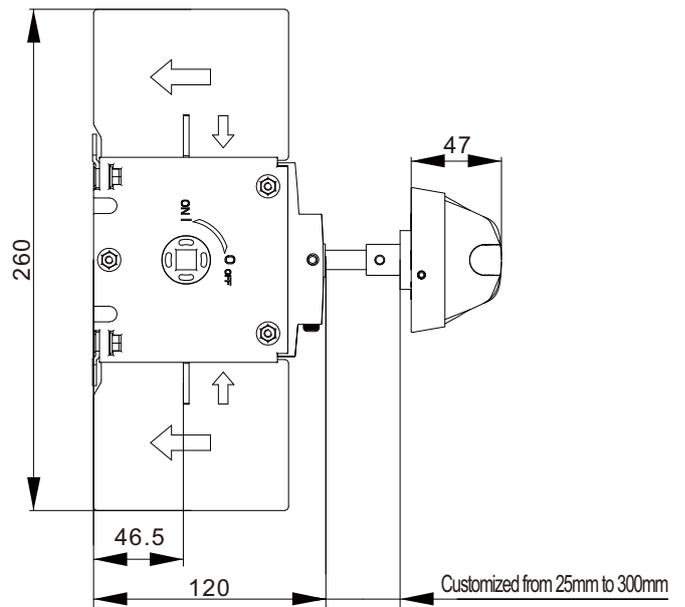
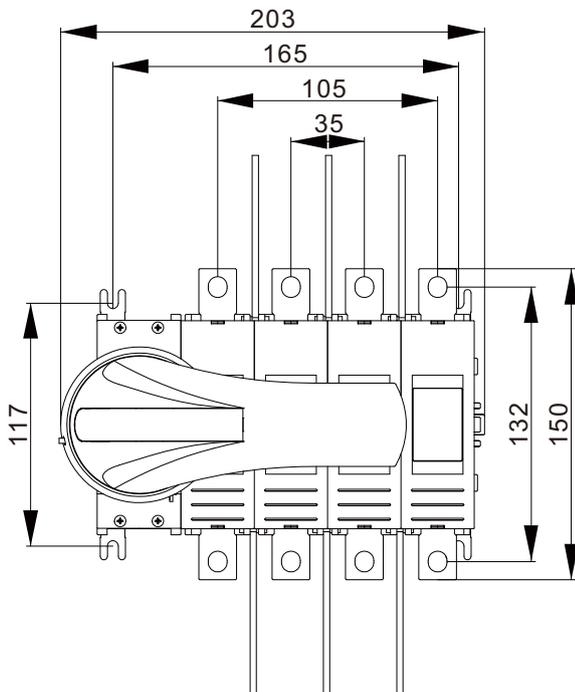
## Dimension (mm)

BH-250-4P



 The standard total length of the shaft is 182mm  
The minimum total length of the shaft is 80mm

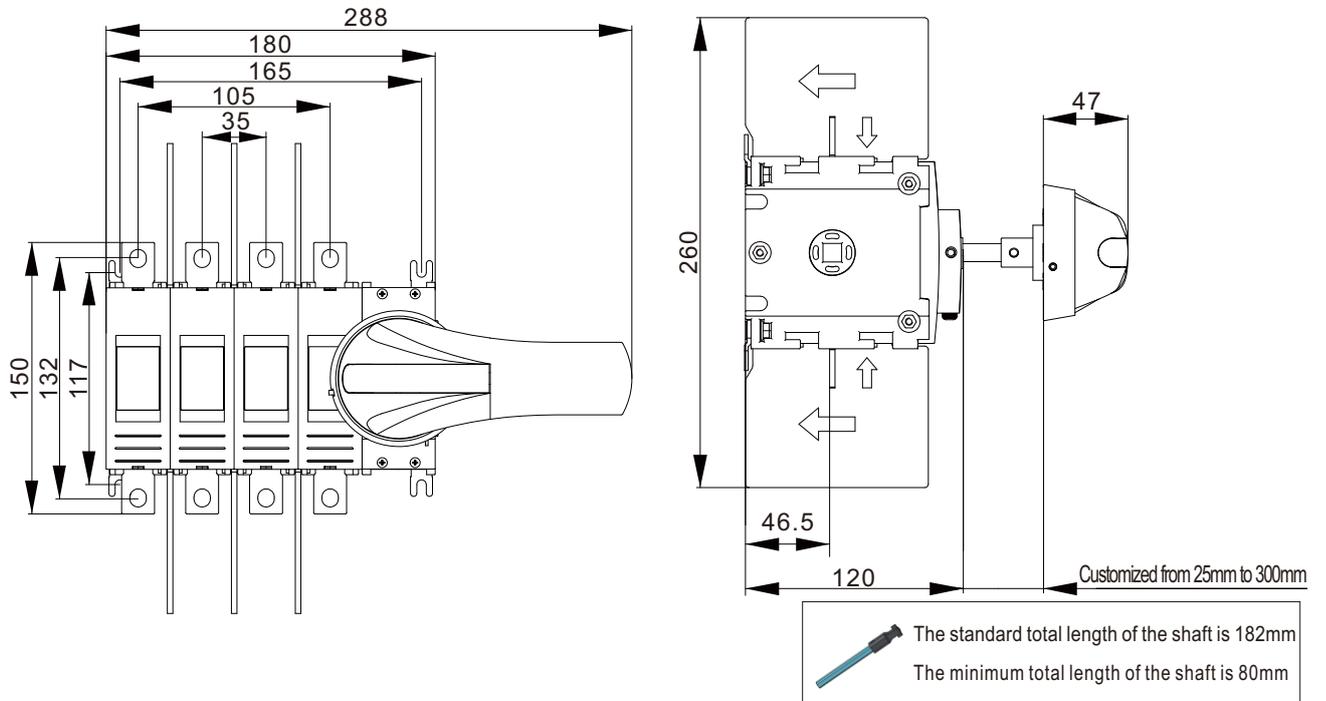
BH-250-4P-A



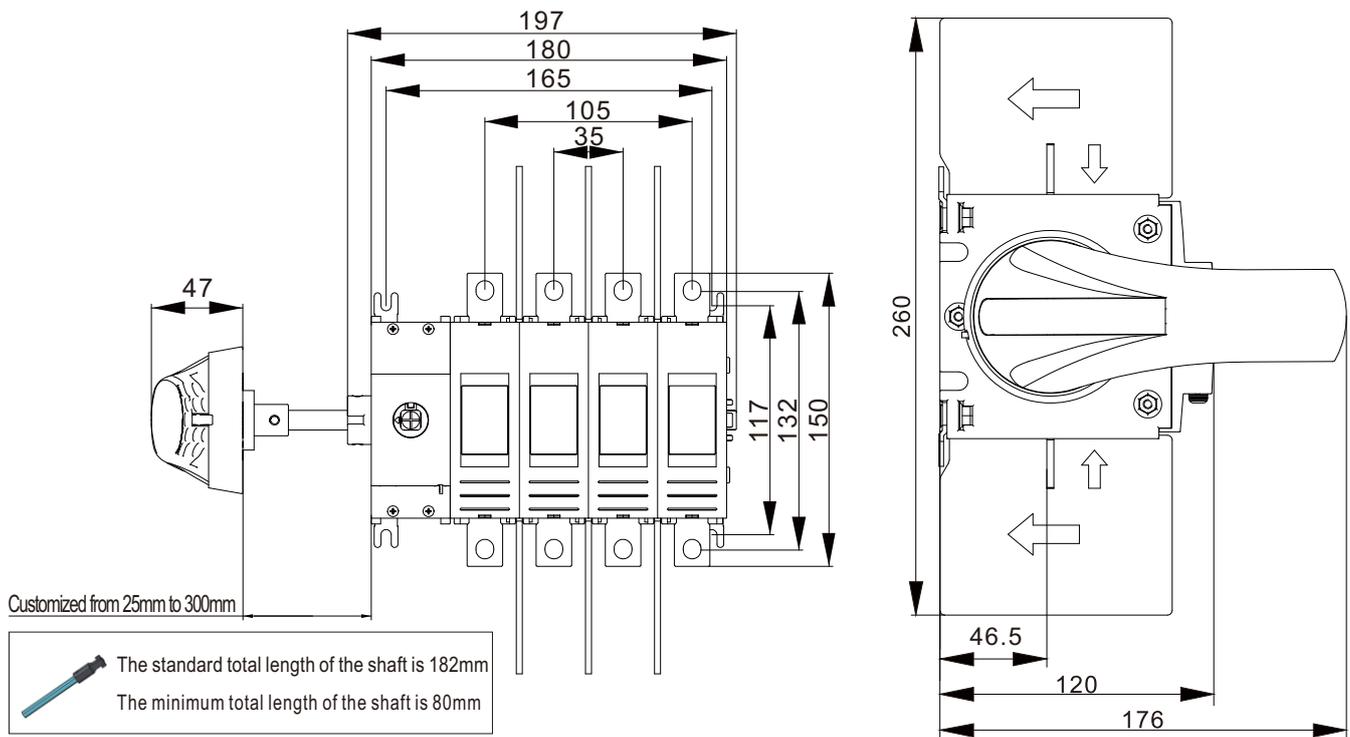
 The standard total length of the shaft is 182mm  
The minimum total length of the shaft is 80mm

## Dimension (mm)

BH-250-4P-B

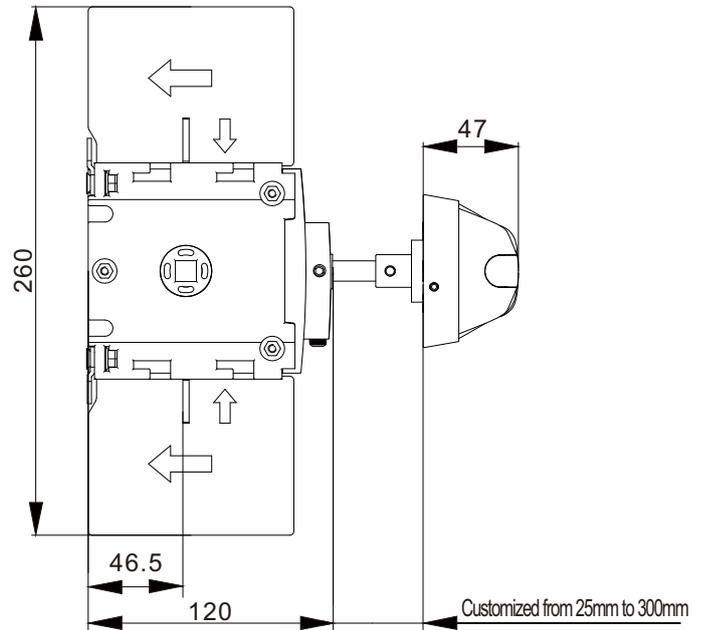
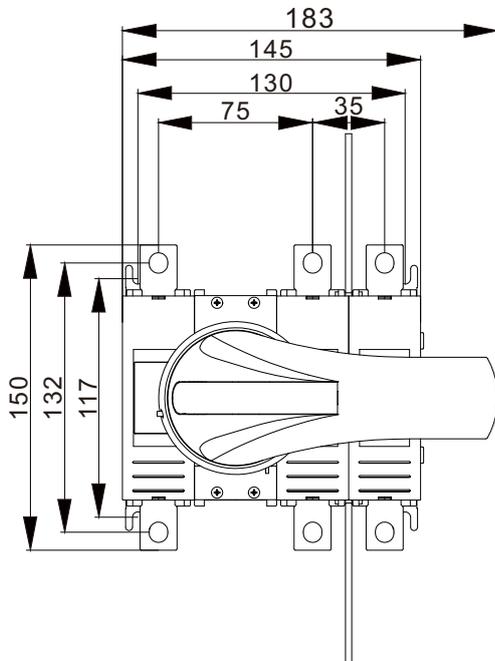


BH-250-4P-A1&B1

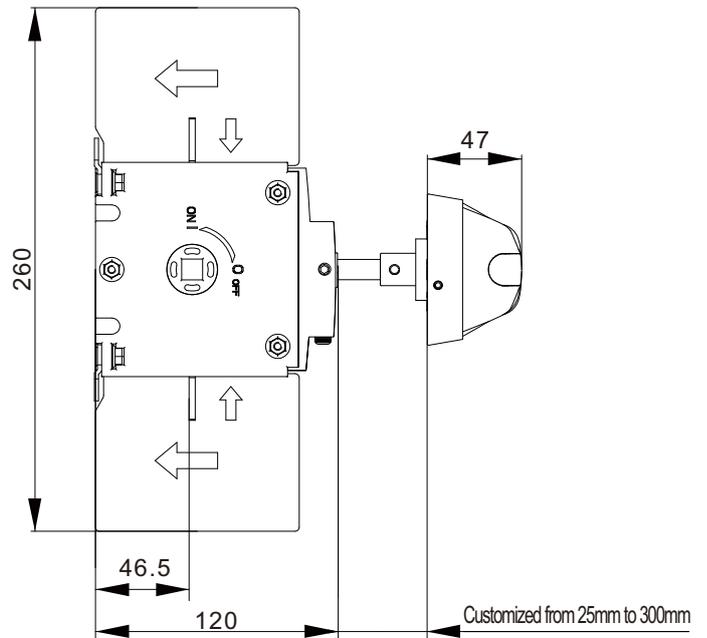
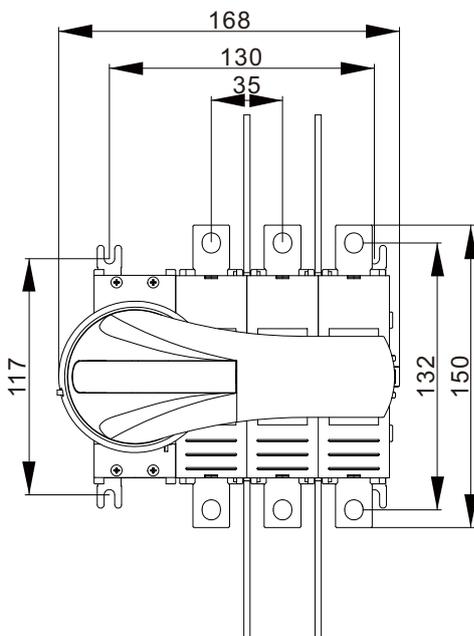


**Dimension (mm)**

BH-250-3P



BH-250-3P-A

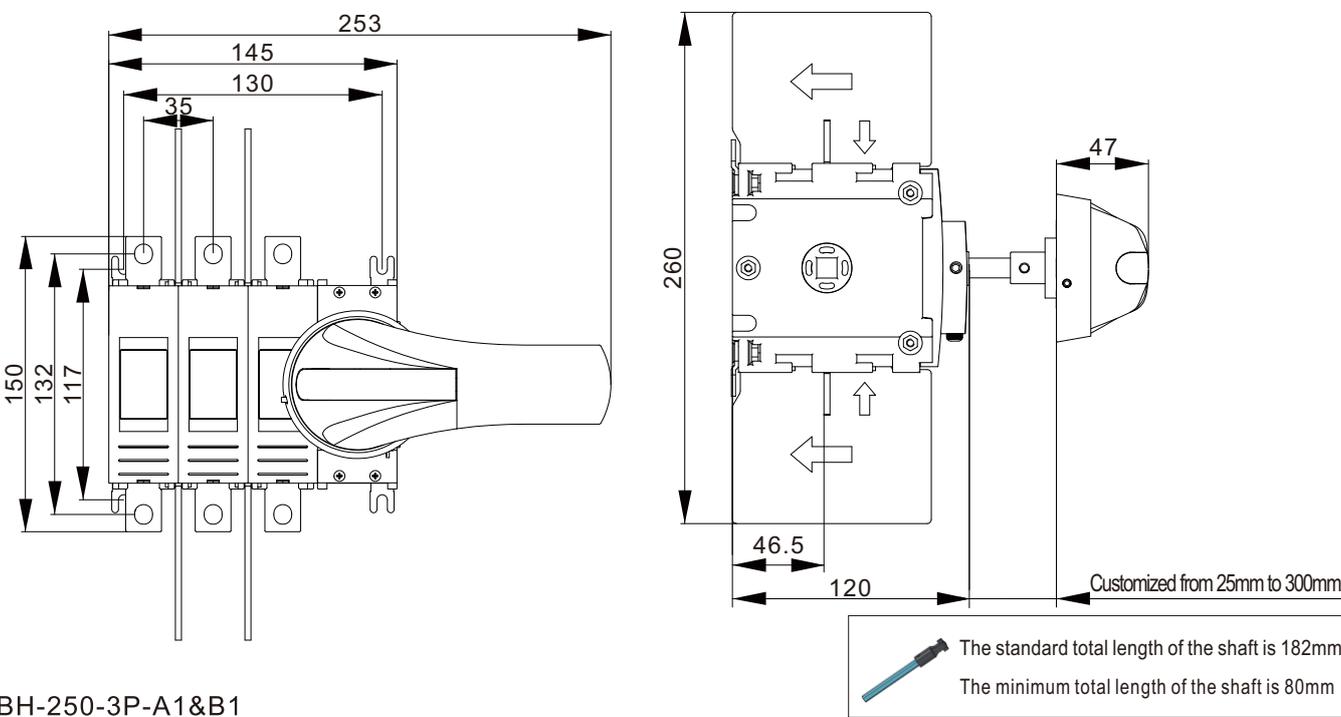


 The standard total length of the shaft is 182mm  
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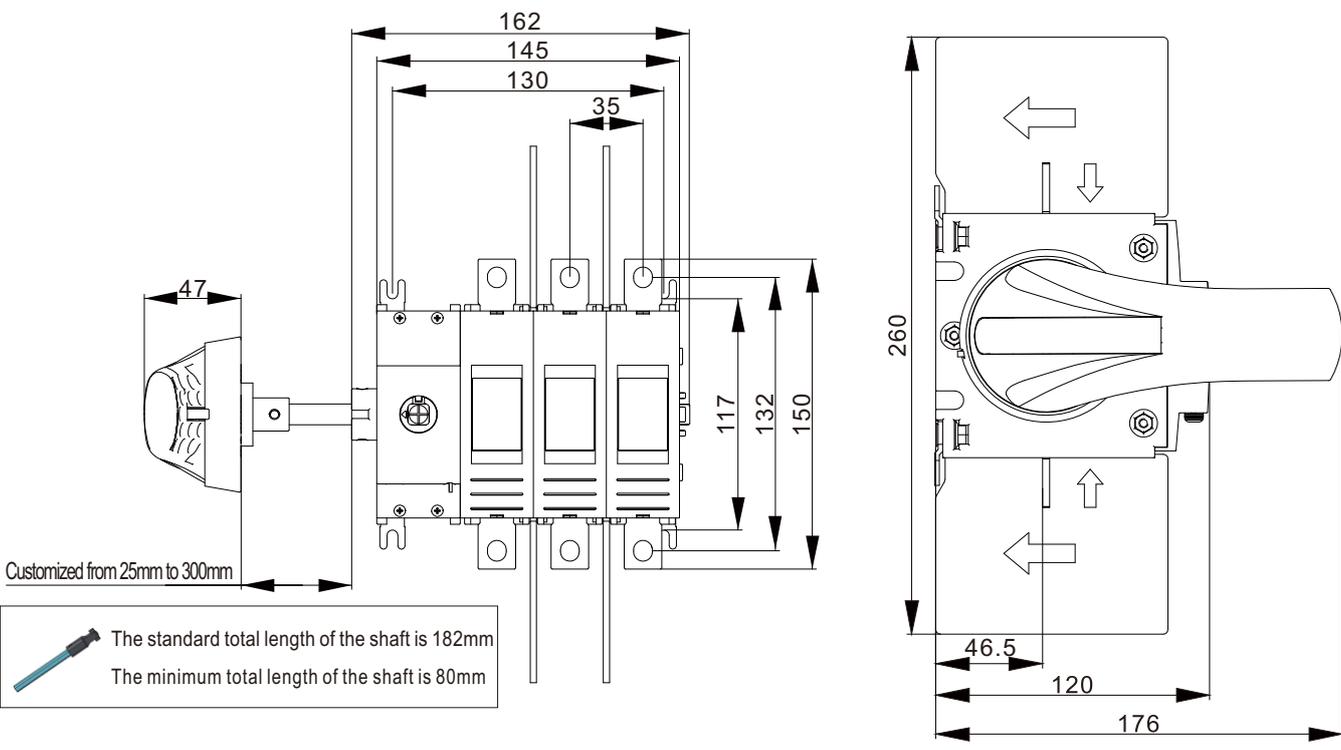
Dimension (mm)

BH-250-3P-B



 The standard total length of the shaft is 182mm  
 The minimum total length of the shaft is 80mm

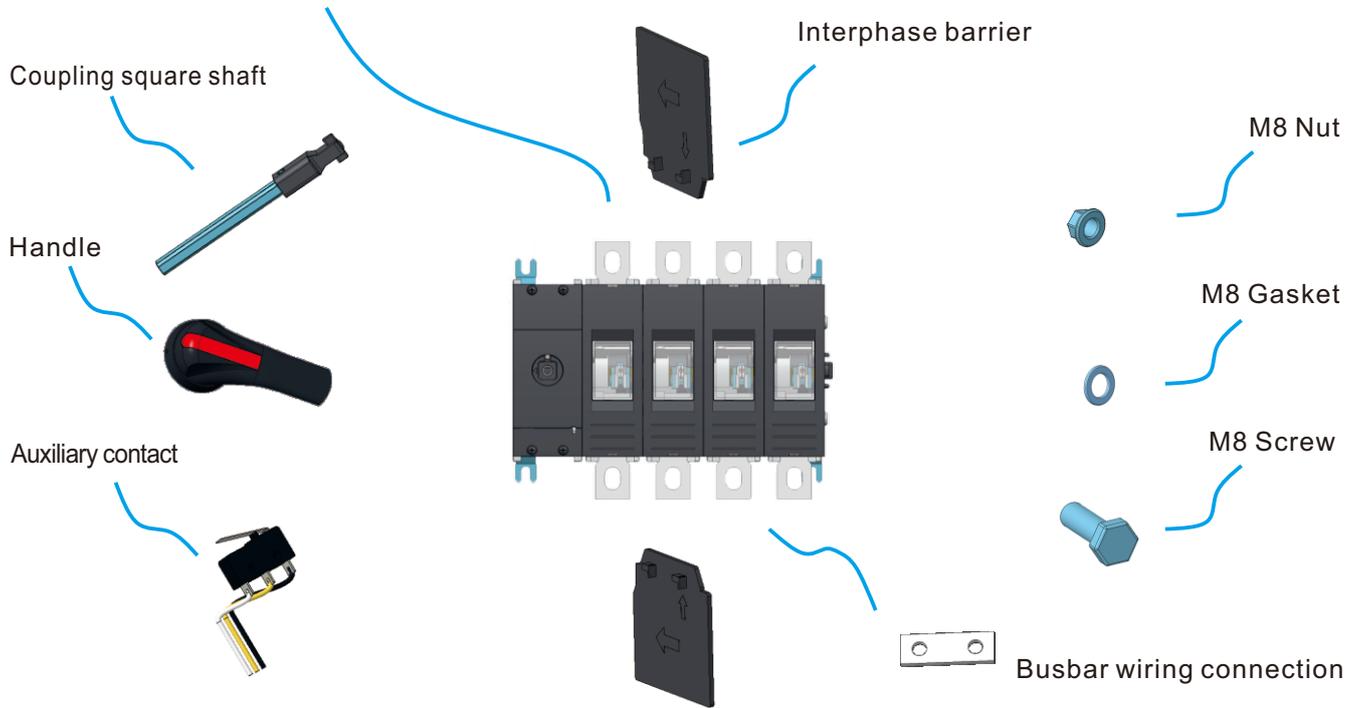
BH-250-3P-A1&B1



 The standard total length of the shaft is 182mm  
 The minimum total length of the shaft is 80mm

## Switches and accessories

Front and side operable products



## Accessory

Name	The attachment list
standard configuration	<input checked="" type="checkbox"/> Handle
	<input checked="" type="checkbox"/> Coupling square shaft (The standard length is 182mm)
	<input checked="" type="checkbox"/> Interphase barrier
	<input checked="" type="checkbox"/> M8 Binding kits
	<input checked="" type="checkbox"/> Specification
	<input checked="" type="checkbox"/> Busbar wiring connection (DC1500V dedicated)
apolegamy	<input type="checkbox"/> Auxiliary contact
	<input type="checkbox"/> Coupling square shaft Custom length _____ mm

## Derating data

### Derating Temperature

Type	Tem	-40°C ~ +55°C	+60°C	+65°C	+70°C	+75°C	+80°C
	Current						
BH-250		250A	245A	237.5A	230A	225A	220A

### Derating Altitude

Altitude	2000m	3000m	4000m	5000m
Power frequency withstand voltage	3820VDC	3820VDC	3820VDC	3820VDC
Isolation voltage	1500VDC	1500VDC	1500VDC	1500VDC
Working current	250A	250A	237.5A	230A
Working voltage	N/A			

## Installation and use

The connecting conductor shall be copper conductor or equivalent copper row. The sectional area shall be selected according to the table

Rated current (A)	80A	100A	125A	160A	200A	250A
The area of a wire or copper conductor mm <sup>2</sup>	25mm <sup>2</sup>	35mm <sup>2</sup>	50mm <sup>2</sup>	70mm <sup>2</sup>	95mm <sup>2</sup>	120mm <sup>2</sup>

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