

BH-630H Series
PV DC Isolator Switch



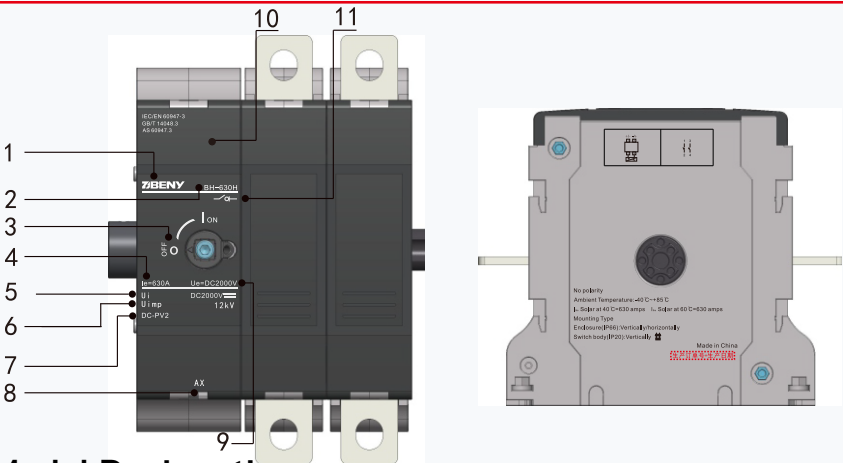
AS 60947.3
IEC/EN 60947-3
GB/T 14048.3

- 1 Brand
- 2 Product Model
- 3 ON/OFF Position Indicator
- 4 Rated Current
- 5 Rated Insulation Voltage
- 6 Rated Impulse Withstand Voltage
- 7 Utilization Category
- 8 Auxiliary Contact
- 9 Rated Operational Voltage
- 10 Certification Marks
- 11 Electrical Symbol

Product Overview

ZBENY The BH-630H Series PV DC Isolator Switch is designed for PV power systems with a rated operational voltage up to DC 2000 V and a rated current up to 630 A. It provides reliable isolation and circuit disconnection, ensuring safe isolation for low-voltage circuits in photovoltaic applications.

Product Structure



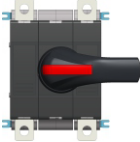
Model Designation

BH	-	630H	-	2P	-	630A	-	Assembly method	-	AX
↓		↓		↓		↓		↓		↓
Model		Frame Size		Number of Poles		Rated Current		Option		Option
PV DC Isolator switch		630A		2P		630A		☐ 无 ☐ A ☐ B ☐ A1		Auxiliary Contact ☐ Required ☐ Not Required

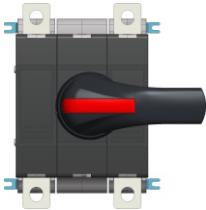
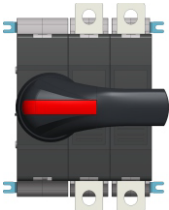
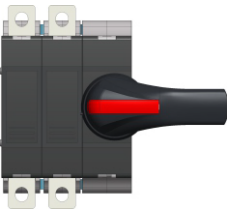
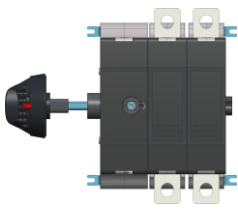
Technical Specifications

Electrical Characteristics		
Rated Operational Voltage	Ue	2000V
Rated Operational Current	Ie	630A
Rated Impulse Withstand Voltage	Uimp	12kV
Rated Short-time Withstand Current	Icw	10kA
Rated Short-circuit Making Capacity	Icm	10kA
Contact Resistance		< 0.5m Ω
Utilization Category		DC-PV2
On-load Operating Cycles (Ambient Temperature)		200
Off-load Operating Cycles (Ambient Temperature)		5000
Number of Poles		2
Installation & Operating Conditions		
Mounting Method		Base-mounted
M5 Bottom Mounting Screw Torque		2.0N·m ~ 3.0N·m
M14 Terminal Screw Torque		acc. IEC 60947-1 20N·m
Ambient Temperature		-40°C ~ +85°C
Storage Temperature		-40°C ~ +85°C
Maximum Relative Humidity (Non-condensing, 20°C)		90%
Pollution Degree		3
Terminal IP Rating		IP20
Panel-mounted IP Rating		IP66

Wiring Diagram

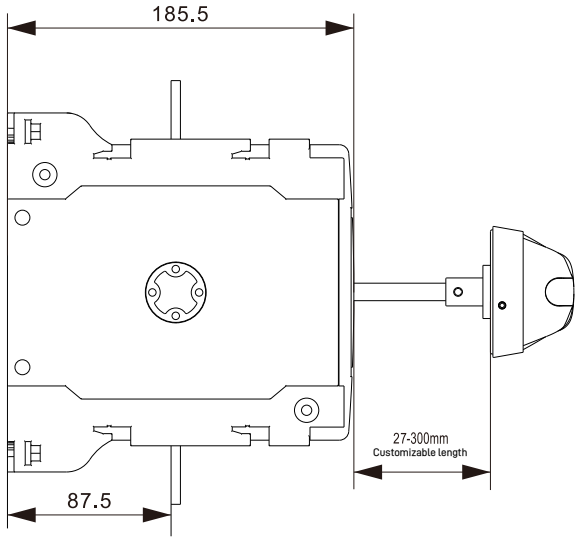
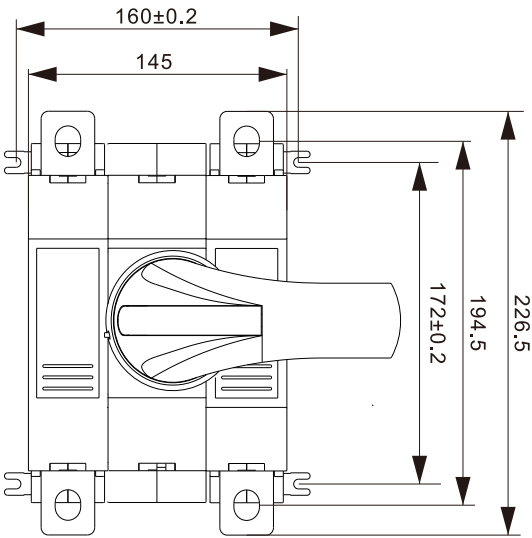
Model	Wiring Configuration	Rated Operational Voltage (DC)	Rated Operational Current	Poles in Series	Number of PV Strings
BH-630H 		2000V	630A	1	1
	Application Example				
					

Mounting Configuration

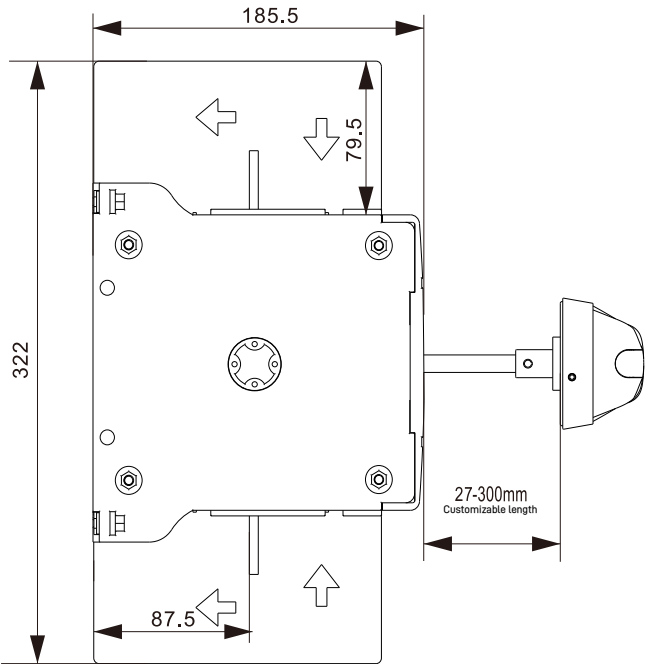
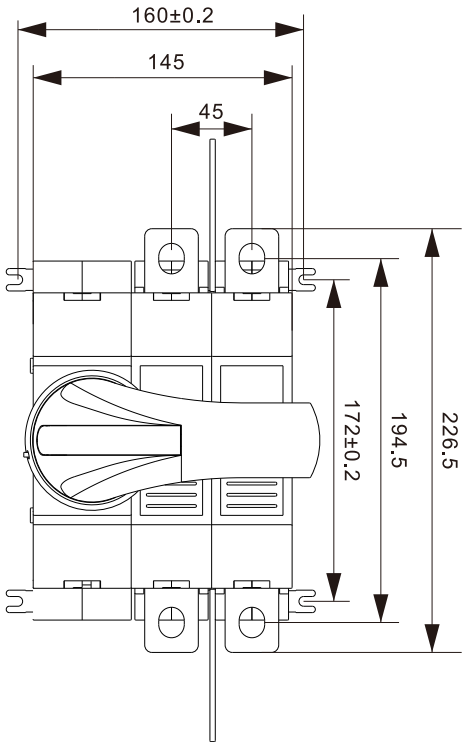
Model	Front Operation			Side Operation
	BH-630H-2P	BH-630H-2P-A	BH-630H-2P-B	BH-630H-2P-A1
BH-630H				

Dimension Drawing (mm)

BH-630H-2P

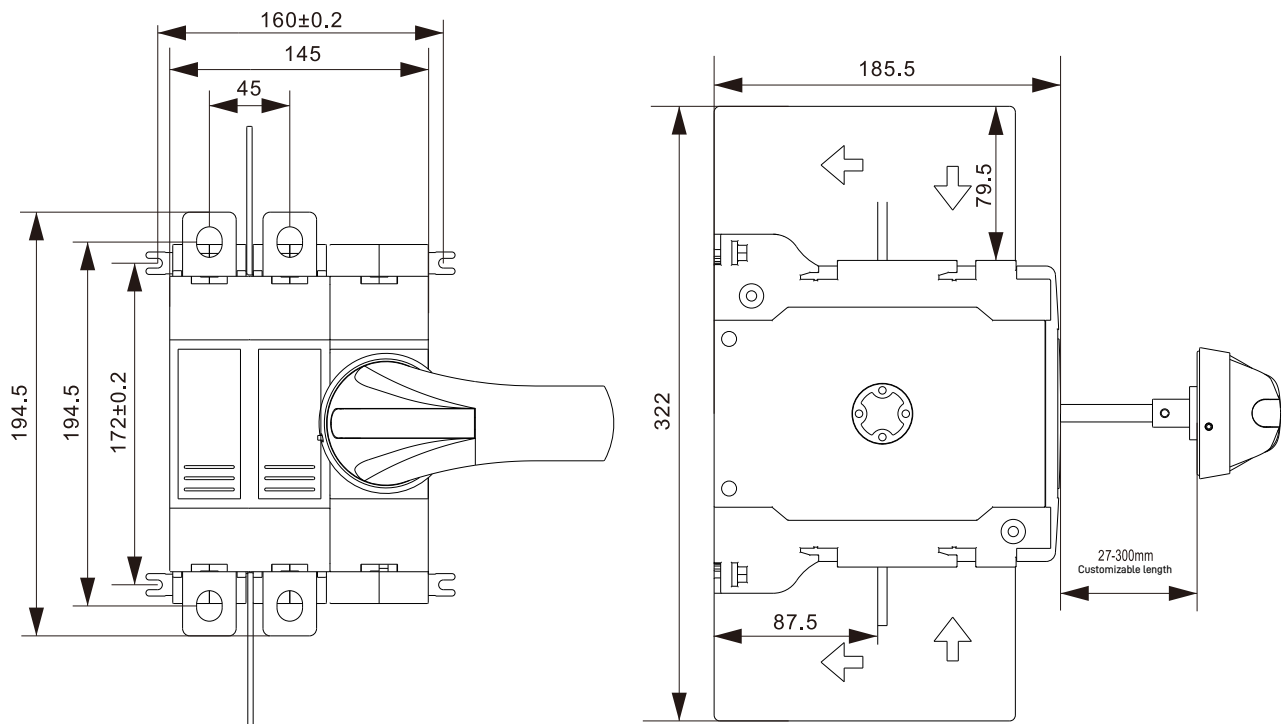


BH-630H-2P-A

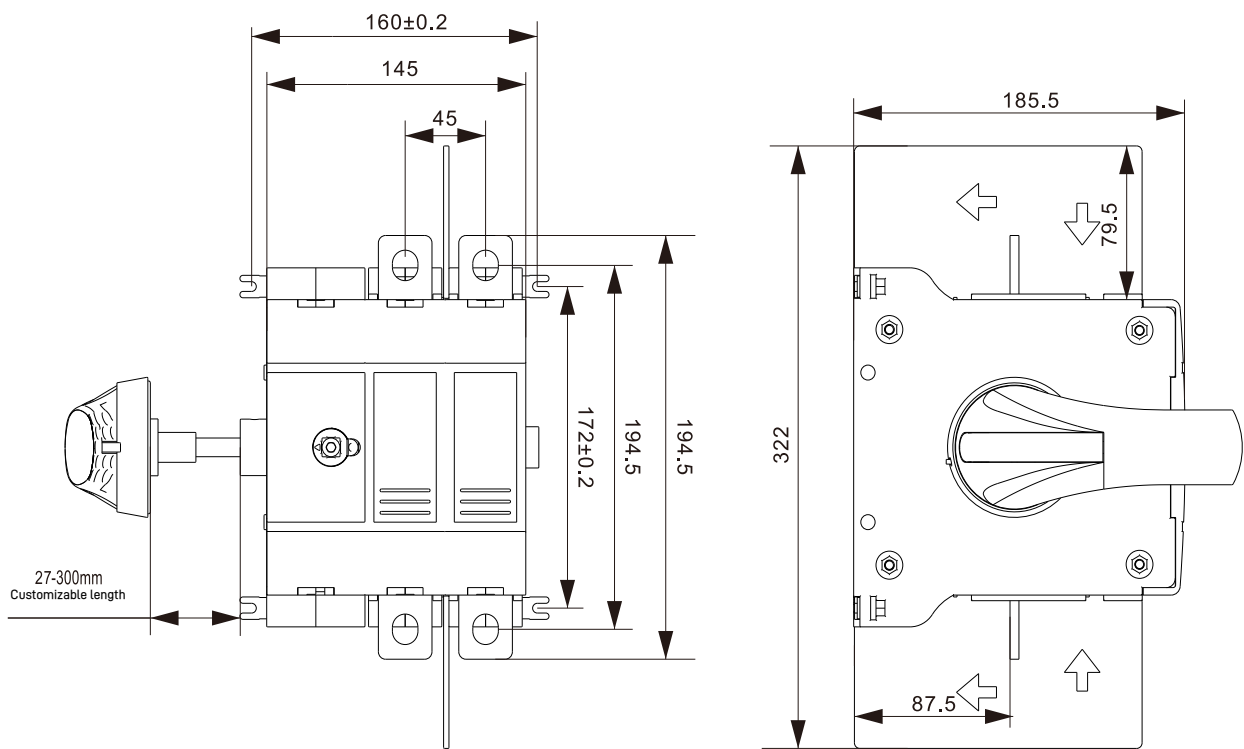


Dimension Drawing (mm)

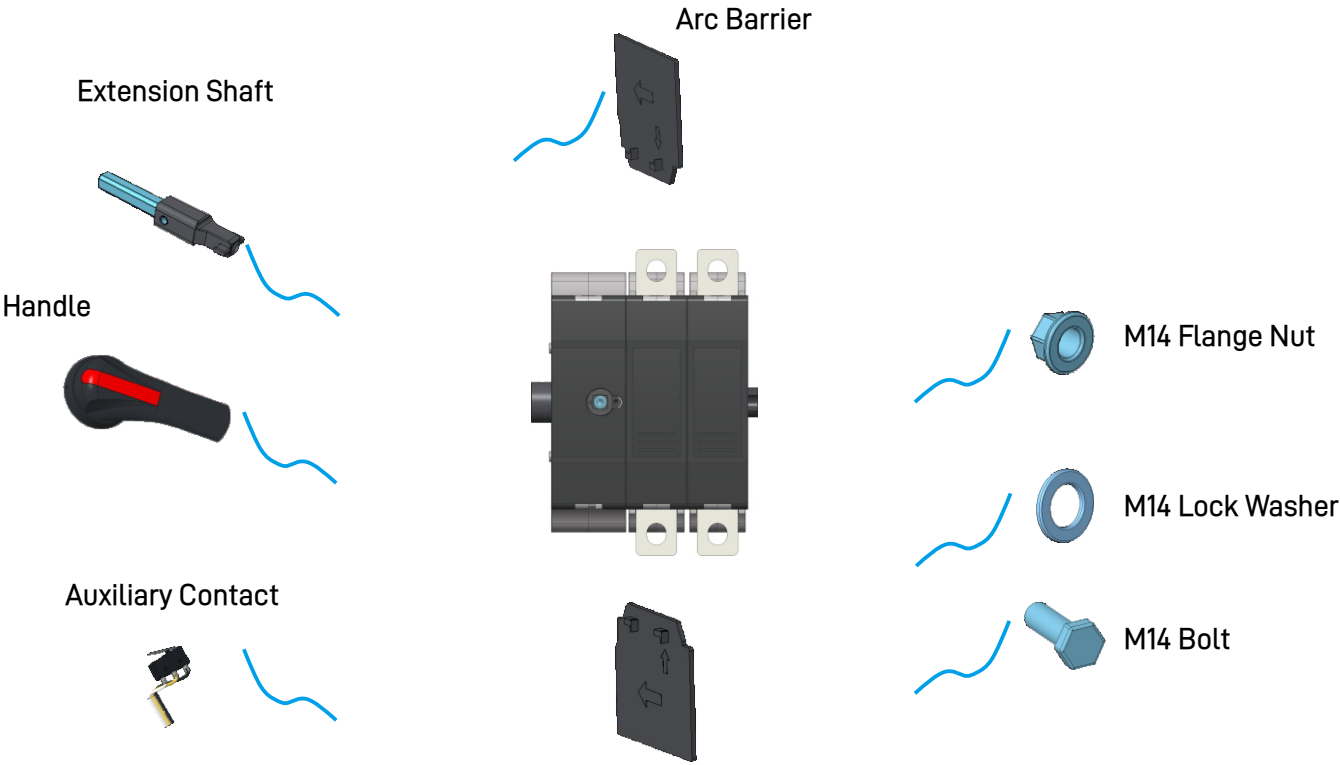
BH-630H-2P-B



BH-630H-2P-A1



Switch & Accessories

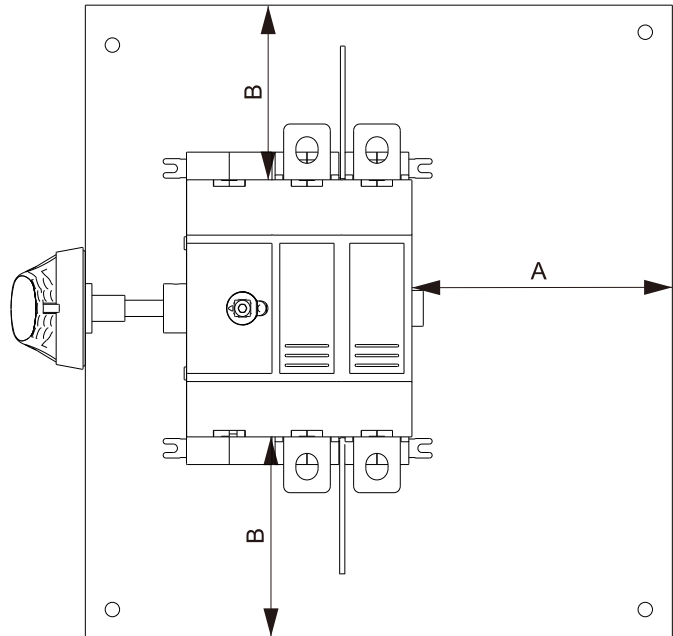


Accessories

Category	Accessory List	Qty.
Standard Configuration	☒ Handle	1
	☒ Extension Shaft (Standard Length: 182 mm)	1
	☒ Arc Barriers (Not Supplied for 2P Models)	2
	☒ M14 Fastener Kit	4
	☒ Instruction Manua	1
Optional Accessories	☐ Auxiliary Contact	2
	☐ Custom Extension Shaft Length: _____ mm	2

Installation & Operation

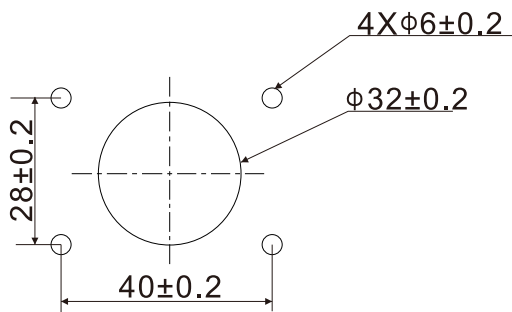
Minimum Enclosure Dimensions Minimum Installation Clearance Requirements



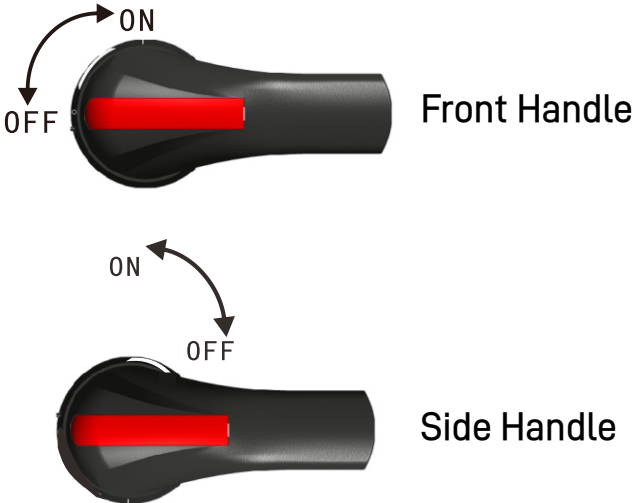
Clearance	Dimension
A min.	50mm
B min.	≥80mm

Door-mounted Handle Installation

Panel Cut-out Dimensions



Tightening Torque: 2.5 N·m



Derating Factors

Temperature Derating

Model	Temperature	-40°C ~ +60°C	+65°C	+70°C	+75°C	+80°C	+85°C
	Current						
BH-630H		630A	630A	630A	630A	630A	630A

Altitude Derating

Temperature	2000m	3000m	4000m	5000m
Operating Current	630A	630A	630A	630A
Operating Voltage	N/A			

Installation & Operation

Use copper conductors or equivalent copper busbars. Select the conductor cross-sectional area according to the table below.

Rated Current (A)	630A
Copper Conductor / Busbar Cross-sectional Area (mm ²)	2X185mm ²

Warning

Ensure that all electrical connections, including bridged connections, are suitable for the rated current. Before energizing the system, verify that all conductive parts are securely clamped and tightened to the torque specified by the manufacturer.

Zhejiang Benyi New Energy Co., Ltd.

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 Product models and specifications are subject to change without prior notice.