

HCG5-32 DC Isolating Switch

1 Ratings:

The HCG5-32 series of photovoltaic rotating DC disconnect switches operate at a voltage range of 600 to 850V, with a rated current of 16 to 32A. The connection method is 2P to 8P. The product design complies with the standard UL508i. It is mainly applied in solar photovoltaic power generation systems.

2 Approvals/Standards:

- ◇ UL
- ◇ CE
- ◇ REACH/RoHS

3 Features&Benefits:

Solar photovoltaic power generation system

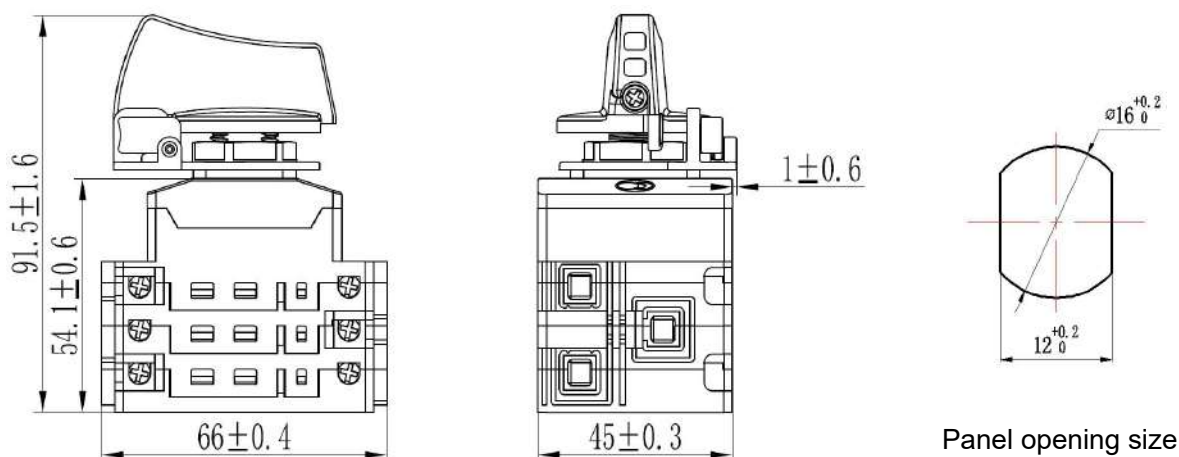


Product Model										
		HCG5-32	/3	P	850-	32	-U	-O	-F	
HIITIO										
Connection method: 2P/3P/4P/6P/8P										
Installation method: P: Panel installation										
Rated voltage: 600: DC 600V, 750: DC 750V, 850: DC 850V										
Rated current: 16:16A, 20:20A, 25:25A, 32:32A										
Usage category: U:UL										
Handle type: O: Handle with lock function										
Screen printing requirements: None: Normal screen printing, F: Reverse screen printing										

5 Characteristic Parameter

Parameter Name	Technical Specifications
Rated Voltage (V)	600750850
Rated Current(A)	32
Connection method	3P/4P/5P/6P/8P
Rated insulation voltage(V)	1500
Rated impulse withstand voltage(V)	8000
Rated short-time withstand current (1 second)(A)	700
Rated short-circuit closing capacity(A)	1400
The rated limit of short-circuit current protected by a fuse(A)	5000
Product dimensions (length x width x height)(mm)	66x45x91.5
Torque for tightening M4 wiring screws(Nm)	1.5~2.0
Torque for tightening panel mounting nuts9(Nm)	2.2~2.4
Torque for tightening handle screws Installation method(Nm)	0.5~0.7
Installation method	Panel installation
Electrical lifespan(Time)	6000
Mechanical lifespan(Time)	10000
Environmental temperature(°C)	-40~ +85
Storage temperature(°C)	-40~ +85
Exterior protection grade	IP20
The protection level of the installation holes on the panel	Type 4X

6 Outline dimensional (mm)

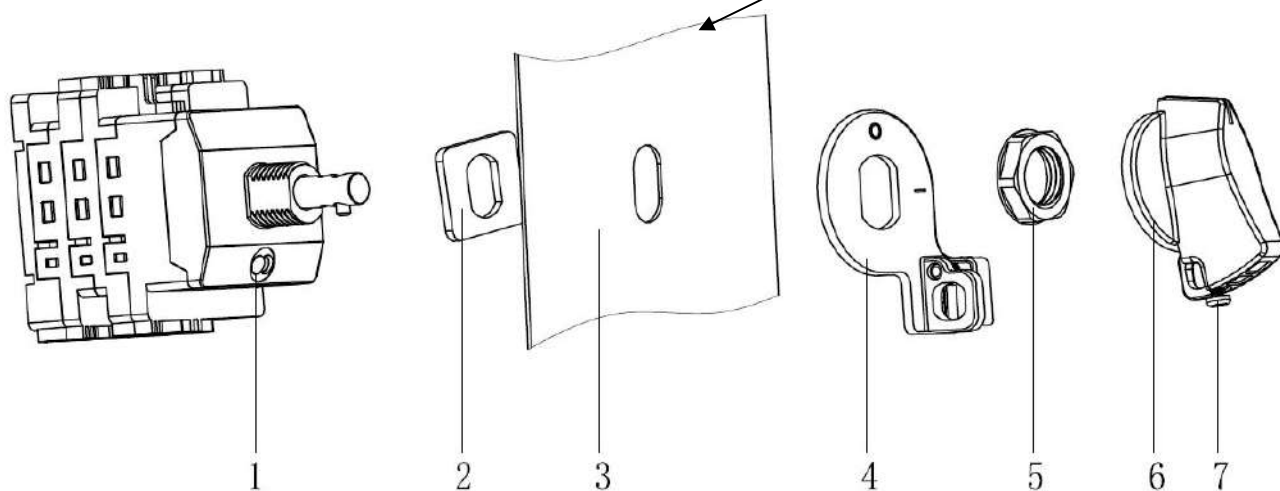


Panel opening size

7. Installation of Circuit Breaker

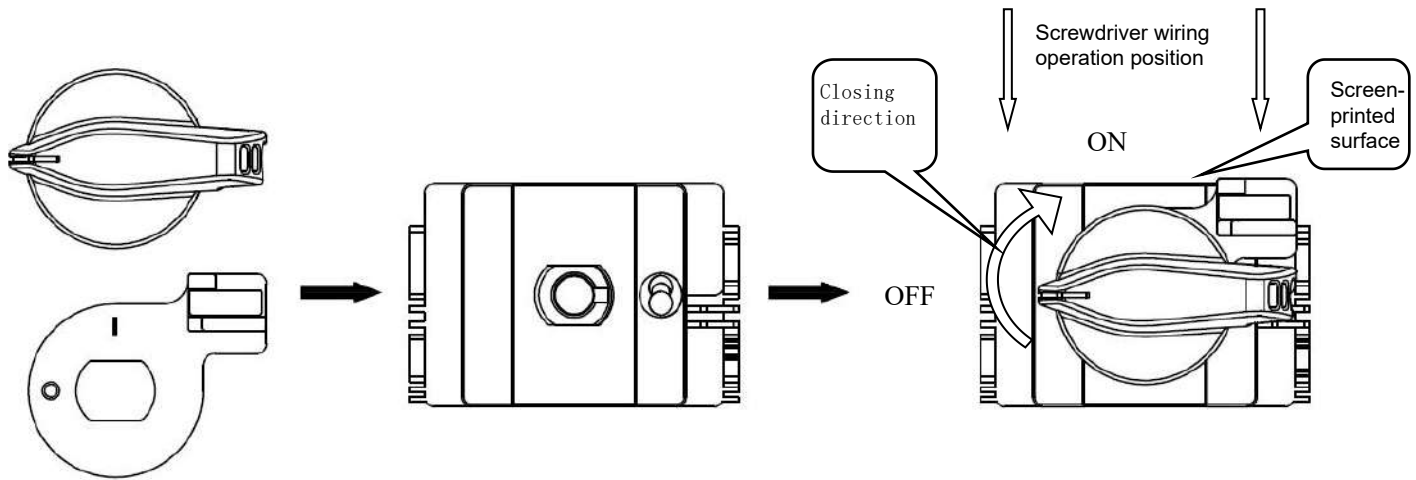
- Adhere the sealing waterproof gasket 2 to the body of the circuit breaker 1;
- Insert the handle shaft and screw of the circuit breaker 1 into the installation holes of the installation panel 3 and the lock mounting plate 4;
- Put the nut 5 on the protruding screw outside the installation plate and tighten it with a 22-inch wrench (torque ranging from 2.2Nm to 2.4Nm);
- Put the handle 6 with the tightened screw 7 on the handle shaft, and tighten the screw 7 on the handle shaft using a 1# cross-head screwdriver (torque ranging from 0.5Nm to 0.7Nm).

Panel installation thickness
t=0.8mm~4mm

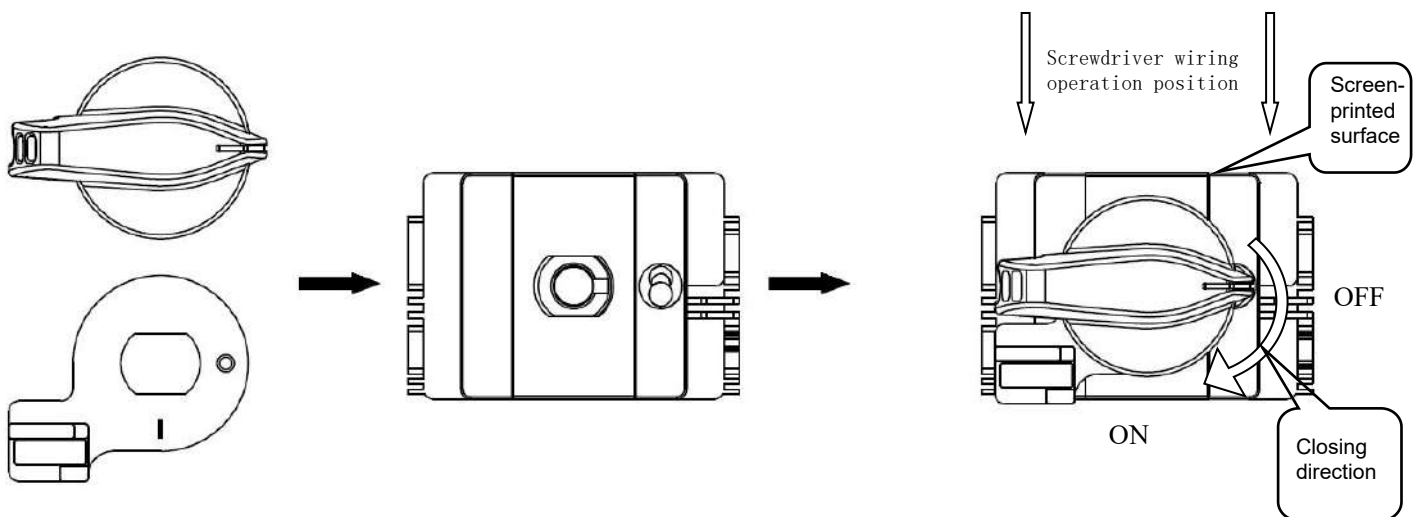


Note: The lock mounting plate and handle have two installation methods.

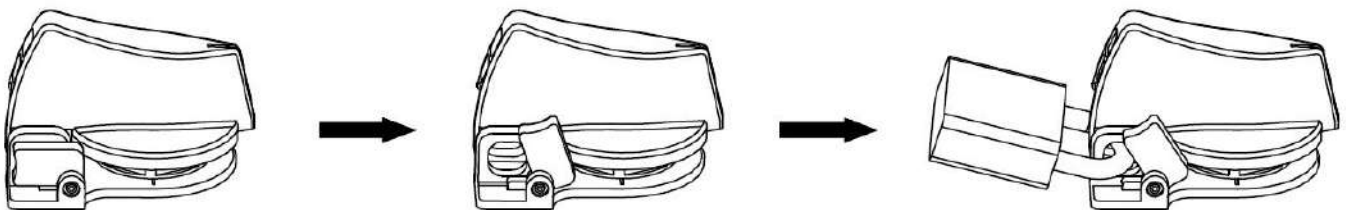
The first method:



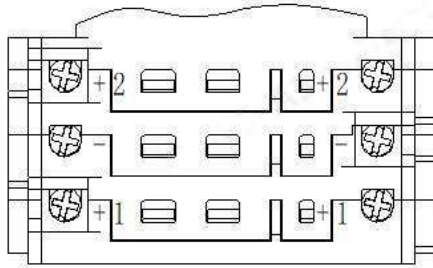
The second type



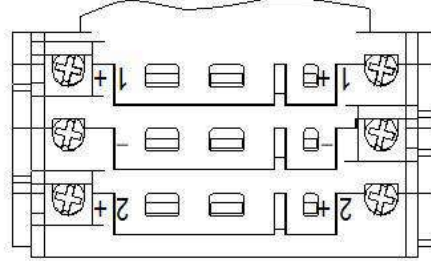
When installing the lock, unscrew the stopper on the lock mounting plate to expose the lock hole, and then install the lock.



3 Product screen printing diagram (illustration)



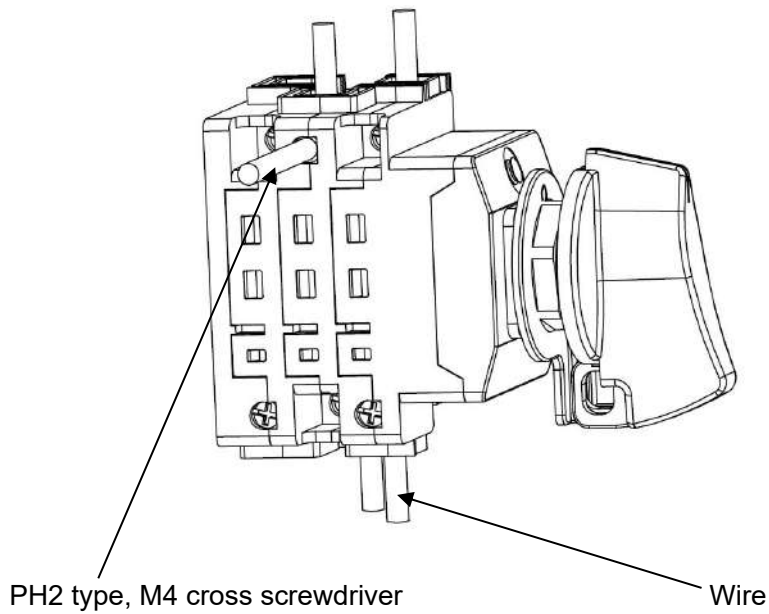
Normal screen printing



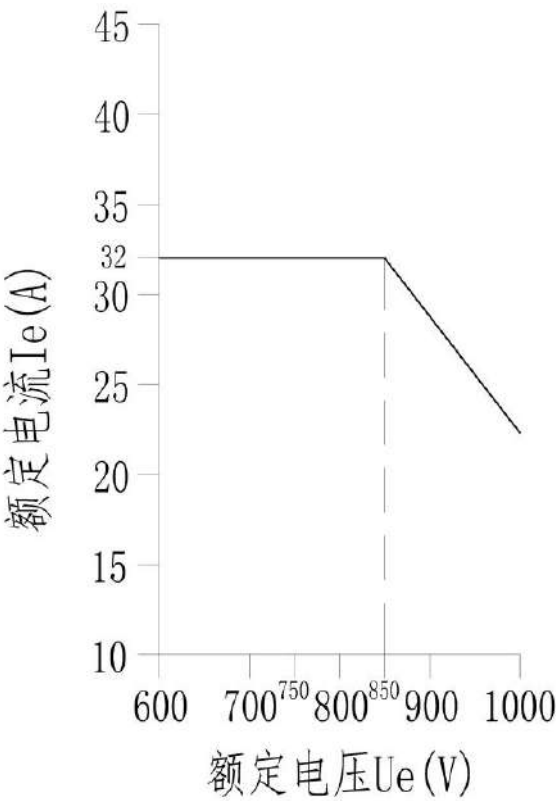
Reverse screen printing

8 Reliable connection

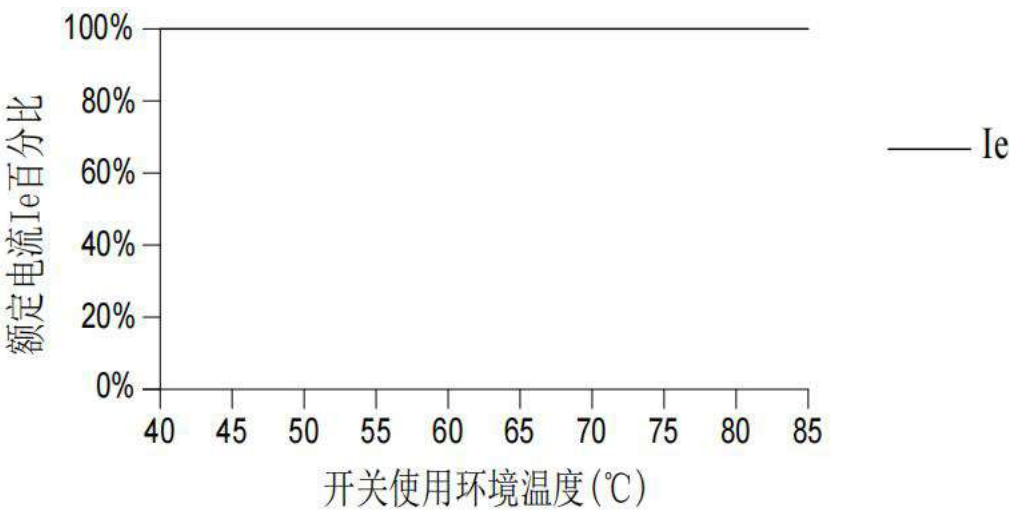
Use the PH2 type, M4 cross screwdriver to fix the wire at the connection socket.



Voltage Current Curve



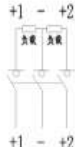
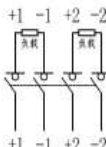
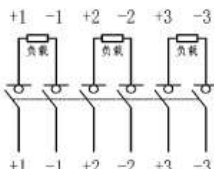
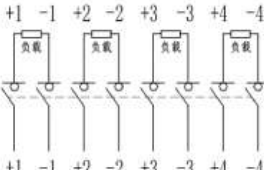
Temperature Derating Curve



Altitude Derating Parameters

Installation altitude(m)	Reduction percentage
2000	100%
3000	100%
3500	93.7%
4000	88.5%

Diagram Of Wiring

2P	600V	16A/20A/25A/32A	
	750V	16A/20A/25A/32A	
	850V	16A/20A/25A/32A	
3P	600V	16A/20A/25A/32A	
	750V	16A/20A/25A/32A	
	850V	16A/20A/25A/32A	
4P	600V	16A/20A/25A/32A	
	750V	16A/20A/25A/32A	
	850V	16A/20A/25A/32A	
6P	600V	16A/20A/25A/32A	
	750V	16A/20A/25A/32A	
	850V	16A/20A/25A/32A	
8P	600V	16A/20A/25A/32A	
	750V	16A/20A/25A/32A	
	850V	16A/20A/25A/32A	

Note: When two poles share a single negative terminal, the rated current refers to the current passing through the shared negative terminal.