

HCG4-500 DC Disconnect Switch Specifications

Product Features:

- ◇ The switch body adopts a special module combination
- ◇ The new visual appearance design reduces the exposed metal parts of the switch body and improves the safe operation performance of the switch

Approvals/Standard:

- ◇UL
- ◇CE



Product USE

The product can carry infrequent connection and disconnection lines, with high safety and reliability

The rated operating voltage is DC1500V/DC1000V

Rated current 500A

Product Model:												
	HC	G	4	-□	/2	Q	□	□	J	F44	V	500
Company Code												
Model G: Disconnecter												
Design serial number 4 size												
Rated current(A) 500												
Poles 2												
DC products Q:DC												
Operating mechanism position M: Mechanism in the switch electrode (Blank)												
Mode of operation : Front operation (Blank)												
Handle operation mode: Inside the cabinet (Blank) J: Operation outside the cabinet												
Auxiliary contacts F44:4 normally open 4 normally closed (any combination of auxiliary contacts)												
Voltage classes V:DC1000V Blank:DC1500V												
Rated current 250, 315, 400A, 500A (ULType selection)												

Selection examples:

①HCG4-500/2QF44V500

HCG4series DC isolation switch, DC1000V, rated current 500A, 2-pole, cabinet operation, auxiliary contact 4 normal open 4 normal close.

Main technical parameters

Product model	HCG4-500
Type of operation	Manual type
Conventional heating current Ith (A)	500
Rated operating current Ie (A)	250、315、400 500
Rated operating voltage Ue (V)	DC1000V,DC1500V
Number of poles	2P
Rated insulation voltage Ui (V)	1500
Rated impulse withstand voltage Uimp (kV)	12
Category of use	DC21B、PV2
Rated short-time withstand current Icw	10kA/1s
Rated short-circuit closing current Icm	10kA
Mechanical life (time)	10000
Electrical life (time)	450
Terminal tightening moment (N.m)	50~75
Working altitude	≤2000m (> 2000m Capacity reduction required)
Operating temperature	-40℃~70℃
Pollution level	Level 3
Class of protection	IP20、IP65
Weight (kg)	6.6
Authentication	UL、CE 、RoHS

Auxiliary contacts main parameters

Rated operational voltage	AC125V	AC230V	DC30V
Rated operational current	5A	5A	3A
Rated insulation voltage	1000V		
Rated impulse withstand voltage	2.5kV		
Conventional heating current	5A		
Frequency	50/60HZ		

Normal working environment

(1) The ambient air temperature is -40℃~+80℃

The ambient temperature is 50℃, the maximum rated current reduction coefficient is 0.93 Ie;

The ambient temperature is 60℃, the maximum rated current reduction coefficient is 0.88 Ie;

The ambient temperature is 70℃, the maximum rated current reduction coefficient is 0.84 Ie;

The ambient temperature is 80℃, the maximum rated current reduction coefficient is 0.80 Ie;

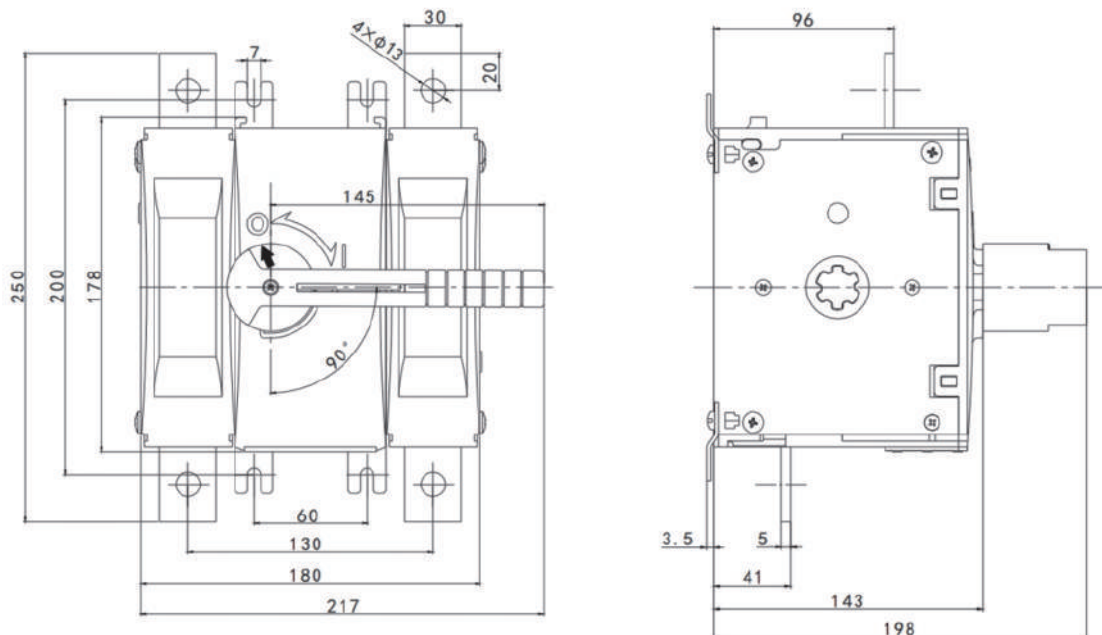
- (2) The use of high altitude drop capacity

Altitude	2500m	3000m	3500m	4000m
Capacity reduction coefficient	0.96le	0.92le	0.88le	0.84le

- (3) The relative humidity of the atmosphere does not exceed 50% when the ambient air temperature is +40 ° C, and higher relative humidity can be allowed at lower temperatures, such as 95% at 20 ° C. Special measures should be taken for occasional condensation due to temperature changes.
- (4) In the medium without explosion risk, and the medium is not enough to corrode metal and destroy insulation gas and conductive dust; Where there is no rain or snow.
- (5) Suitable for installation and use under environmental conditions of pollution level 3.
- (6) Indoor use.

Mounting dimension

Operating size of manual cabinet: (unit: mm)



HCG4-500/2Q

IP65 Manual cabinet outside operation size: (unit: mm)

HCG4-500/2QJ IP65

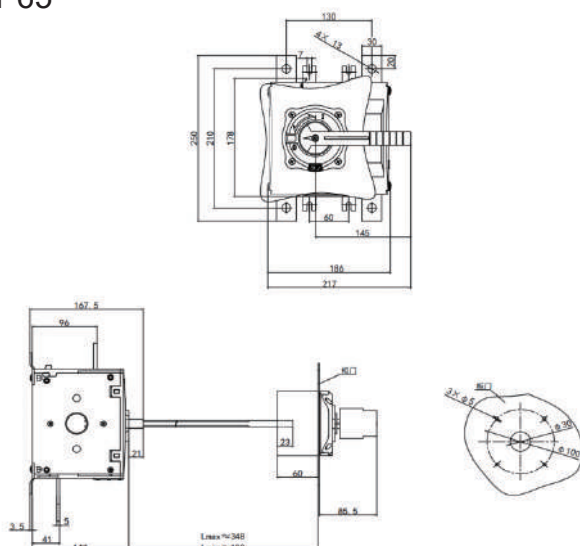
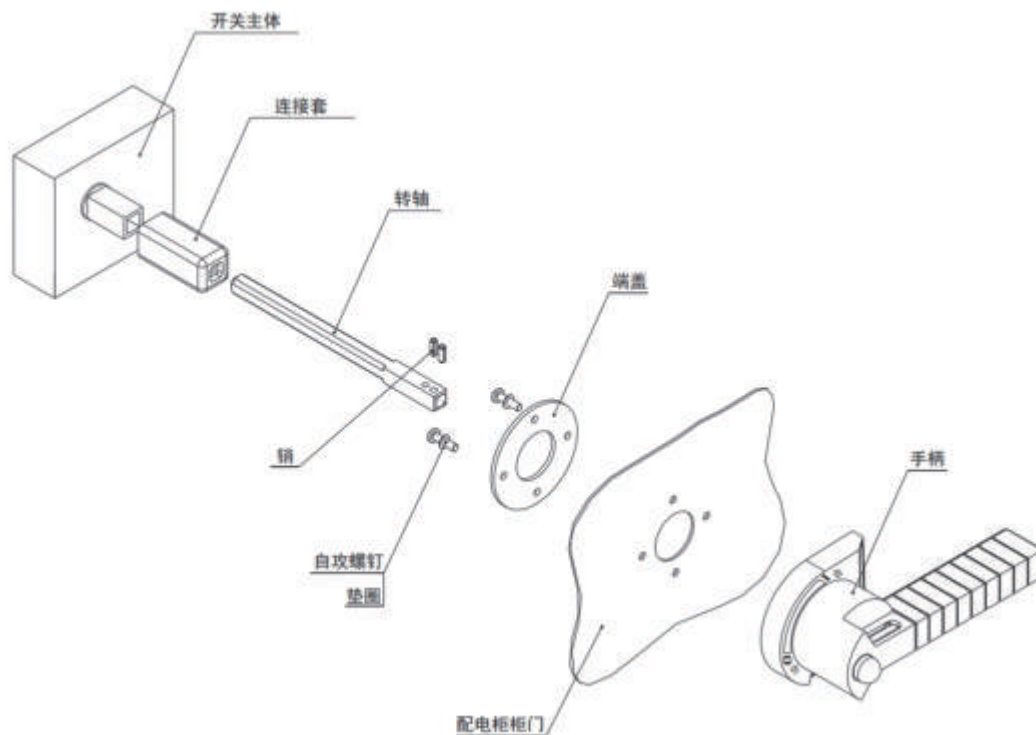


Diagram of operating mechanism outside the cabinet: (Unit: mm)



HCG4-500/2QJ

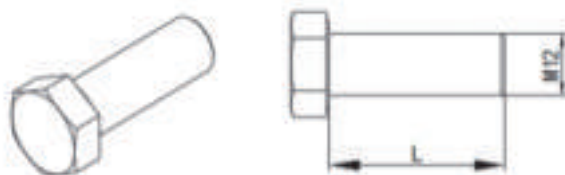
Outside the cabinet operation extension shaft installation size:

Standard length: 332mm,

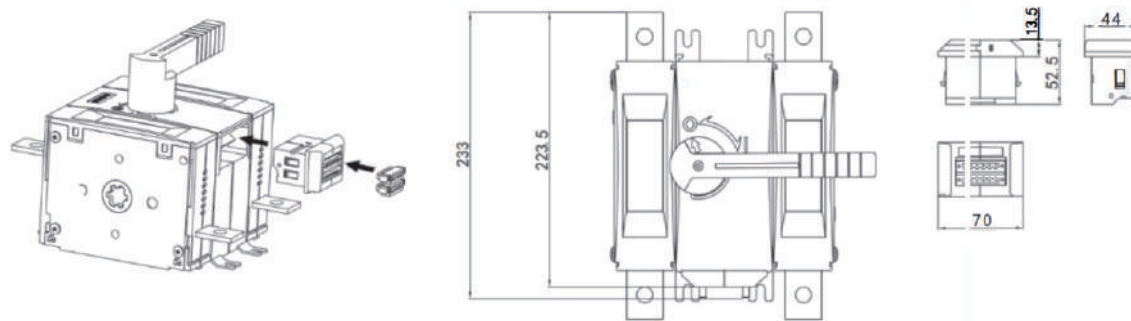
Cross-sectional area 10*10mm²

Note: Other extension shaft lengths can be customized

Copper bar wiring screw: HCG4-500A , outer hexagon bolt M12*35

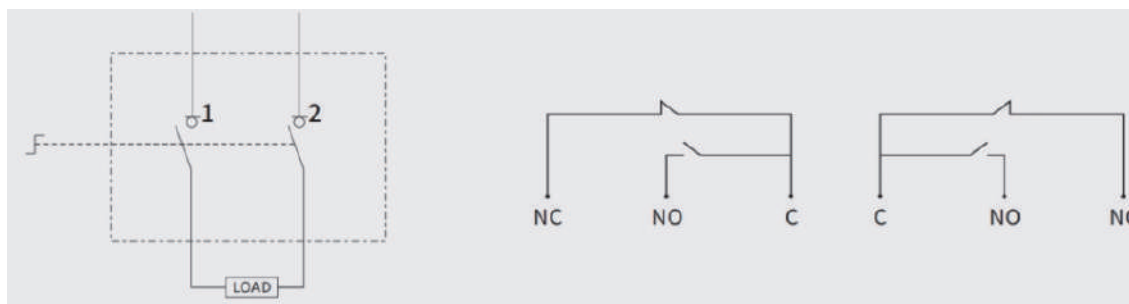


Auxiliary contact outline and mounting size: (unit: mm)



HCG4-500/2QF44

Mode of connection



Major Loop

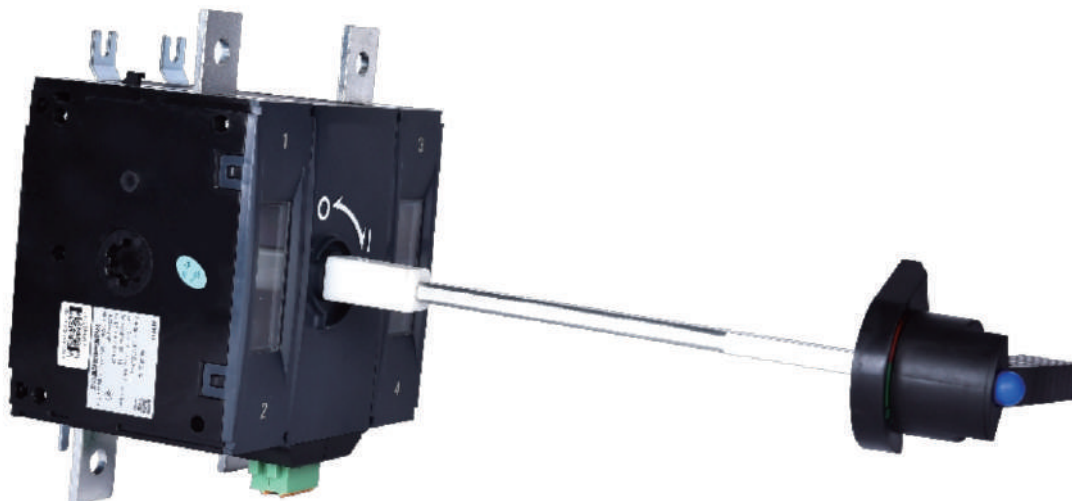
Auxiliary Loop

Installation mode and installation position

Installation method: base plate installation;

Installation position: vertical installation and horizontal installation, vertical installation inclination is not more than 5°;

Status position: ← Break position "O"; ↑ Close position I, two positions.



Matters needing attention

- 1) Before installation, check whether the content of the nameplate meets the requirements of use, and confirm that the switch should be in the off state. Flip the switch to operate the handle, Point the handle to "O", observe that the window moving contact is obviously in the upward state, and the switch is off state; Point the handle to "I", observe that the window moving contact is hidden, the switch is closed, and ensure that the handle opens and closes flexibly.
- 2) The wiring terminals and wiring bare buses on the switch should be covered with insulation to prevent short-circuit between switches.
- 3) If the extension shaft is not coaxial with the handle hole, remember not to pull the extension shaft, so as not to damage the internal parts, it should be coaxial by adjusting the switch position.
- 4) The connecting wire should be fastened on the distribution cabinet frame, and the switch should not bear the weight of the wire. Before tightening the wire, the busbar or cable terminal plane should be parallel to the switch terminal plane. After connecting the wire and the switch terminal with bolts, the switch should not bear various stresses.

Safety warning: Non-professional personnel of the company, do not disassemble the company's products at will, so as to avoid personal or equipment safety risks.