



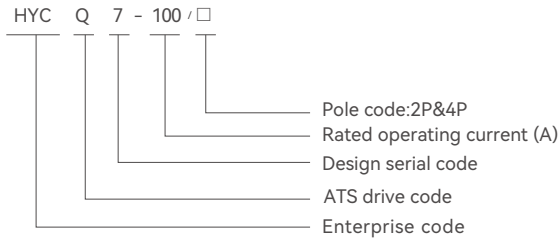
HYCQ7 Series Automatic Transfer Switches

Features

- ◆ HYCQ7 dual power automatic transfer switches are newly developed miniature household power transfer switches . This switch is mainly used to test whether the normal or backup power supply is normal .when the city power Supply is abnormal , the backup power supply will Work immediately to ensure the continuity , reliability and safety of the power supply . This product is specially designed for home track TV installation and is specially used for Pz30 distribution box .
- ◆ HYCQ7 automatic transfer switches are suitable for emergency power system 400v,60A with AC rated current of 50V or 60HZ, compact structure , reliable conversion , easy installation and maintenance . long life . It is widely used in various occasions where Continuous power failure is not allowed . It can be operated electrically or manually by ATS , and the controller .
- ◆ Complies with requirements of Low - voltage Switch Gear and Control Gear specified by IEC60947-6-1 and IEC60947-3: functional equipment and transfer switch equipment .



Model description



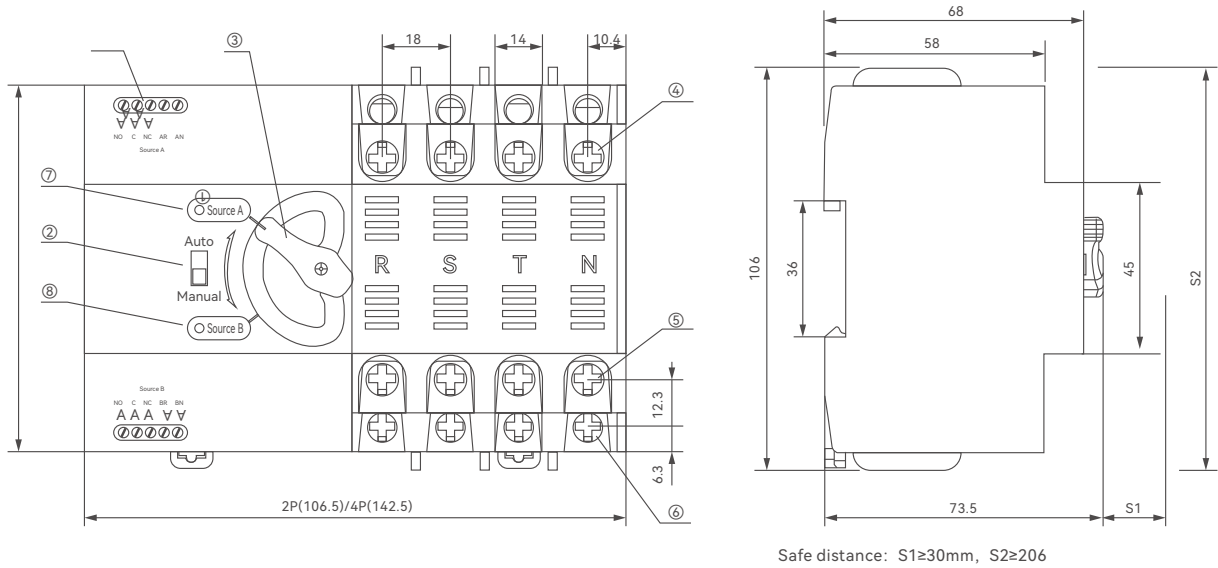
Normal working conditions

- ◆ Ambient temperature : the upper limit does not exceed +40°C . The average value of 24h does not exceed +35°C , and the lower limit is not lower than -5°C .
- ◆ The altitude is higher than the installation site and the altitude does not exceed 2000m
- ◆ When the highest atmospheric temperature is +40°C , the relative humidity of the atmosphere at the installation site should not exceed 50%. At lower temperatures , higher relative humidity is allowed , for example , temperature +25°C , relative humidity is 90%. Due to temperature changes , occasionally measures should be taken to prevent condensation on the surface of the product .
- ◆ Pollution degree The pollution degree of TSE complies with the level 3 specified by IEC . The installation category of 60947-6-1 and IEC 60947- 1 cateaory TSE conforms to the category specified by IEC Installation conditions can be installed vertically in a or power distribution cabinet . Make sure : the installation distance Sis as shown in the figure .1..

The main technical parameters

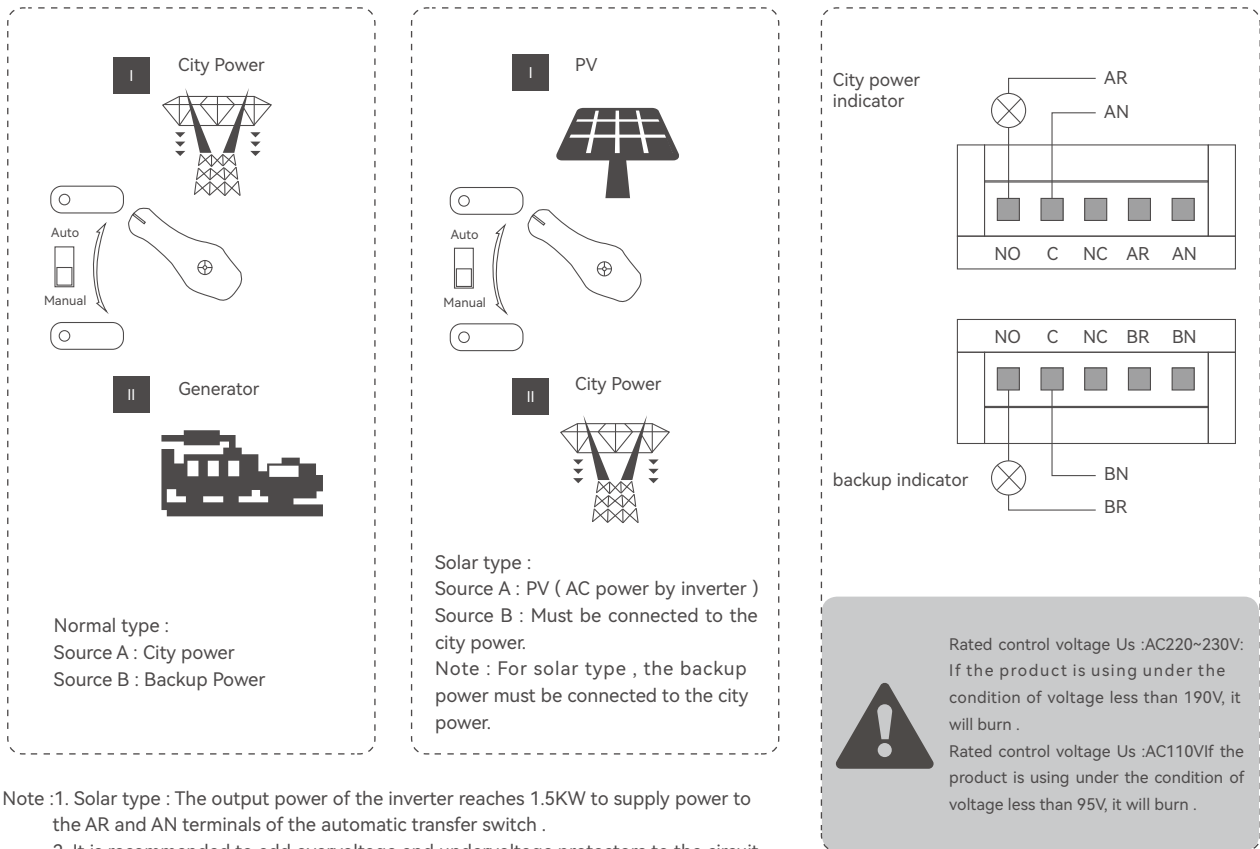
Model	HYCQ7	
Rated current Ie A	10 16 20 25 32 40 50 63	80 100
Insulation voltage Ui	AC 690V	
Rated voltage Ue	2P:AC230V	4P:AC400V
Grade	Grade PC:able to male and withstand , not to break short-circuit current	
Use category	AC -33iB	
Pole	2P	4P
Weight (kg)	0.68	0.91
Life	Electrial :2000times; Mechanical :5000times	
Rated conditional short - circuit current Iq	50kA	
SCPD (fuse)	RT16-00-63A	
Rated impulse withstand voltage	8kV	
Control circuit	Rated control voltage Us :AC220V, 50Hz Correct working condition 85%Us-110%Us	
Auxiliary circuit	AC220V/AC110V50/60HZ	
Contact transfer time	<50ms	
Operating transfer time	<50ms	
Return transfer time	<50ms	
Off - time	<50ms	
Temperature range	-5°C ~+40°C average temperature not more than 35°C in 24 hours	

Shape and installation dimensions



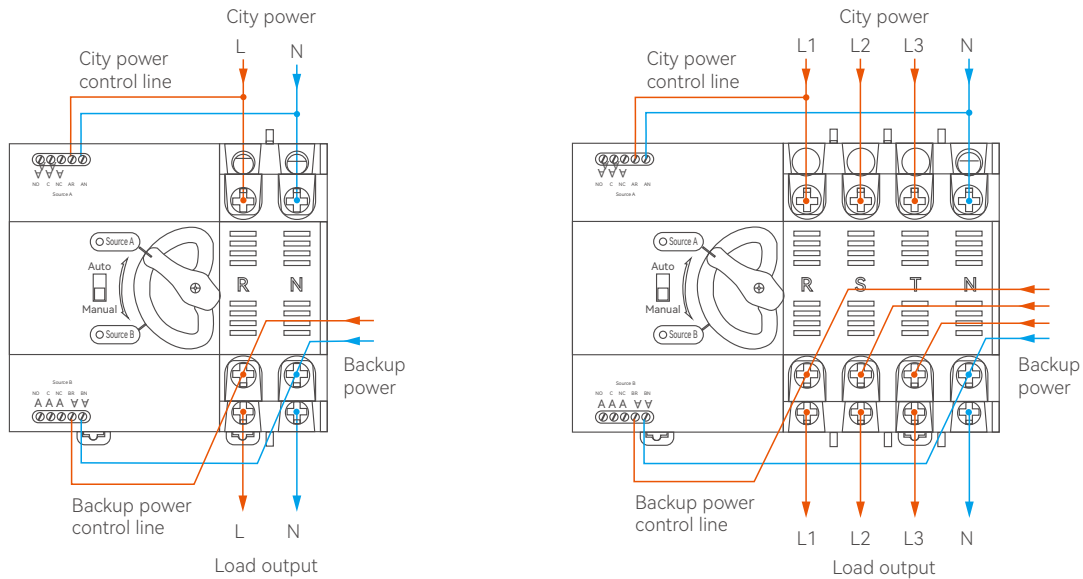
- ① Control power
- ③ manual knob
- ⑤ Source B terminal side
- ⑦ Source A indicator
- ② Selection switch (Auto / manual)
- ④ Source A terminal side
- ⑥ Load side main circuit terminal
- ⑧ Source B indicator

Panel Description



Note :1. Solar type : The output power of the inverter reaches 1.5KW to supply power to the AR and AN terminals of the automatic transfer switch .
2. It is recommended to add overvoltage and undervoltage protectors to the circuit to prevent damage to the automatic transfer switch

Wiring diagram



Installation , use and maintenance

- ◆ Maintenance and inspection should be performed by professionals , and all power sources should be cut of in advance .
- ◆ To ensure the good performance of the dual power supply , the first maintenance and inspection should be carried out within 6 months after use , and maintained and inspected at least once a year . If the installation conditions are harsh , the frequency of maintenance and inspection should be increased .
- ◆ Please remove dust and dirt in the event of failure , check whether the electrical contact parts are deformed and damaged , and remove charred metal particles attached to and around the surface . If the contacts are deformed or damaged , replace the dual power supply immediately .
- ◆ Due to long - term moisture and in a suspended state , please dry the dual power supply before use . After removing dust and dirt , use a 500V megohmmeter to measure the insulation resistance . Normal supply , alternate power supply , load side , including live parts and metal plates . The insulation resistance between the two , and the insulation resistance should not be less than 10MΩ .
- ◆ The dual power supply should be stored in an environment equivalent to the normal working environment , with dust - proof , moisture - proof and anti - collision measures .

Precautions

- ◆ Manual/automatic operation
Dual power supplies can guarantee the performance of energizing and de-energizing in circuit operation , but for manual operation , the above performance is not guaranteed due to differences in generation and de-energization speeds or operators . Excessive silver alloy loss may occur during manual energization and de-energization , so when all power is cut of to check and maintain the operating system and contacts , simply move the selector switch to the manual position . Under normal circumstances , please turn the selector switch to the automatic position , When operating manually , turn the selector switch to the manual position . After the manual operation is completed , finally turn the selector switch from the manual position to the automatic position .
- ◆ Control circuit
The dual power supply adopts electromagnetic instantaneous switching device . After the conversion is completed , the coil in the control circuit will be disconnected by the internal limit switch . The rated voltage is between 80% and 110% , and the coil can operate normally , if the voltage is too low , the switching torque will be caused . Insufficient , the coil control power cannot be disconnected in time , causing the coil to heat up or even spontaneously ignite .
- ◆ Warranty coverage
From the date of delivery , it is 12 months . If it is the company's production quality problem , the company is responsible for replacement or repair ; Product damage caused by natural disasters is not covered by the warranty , but the company can provide paid repair or replacement .

Ordering instructions

The product model , rated current , working voltage and quantity shall be indicated when ordering
Example : gloq7-10063AAC220v200 sets