



PRODUCT INTRODUCTION

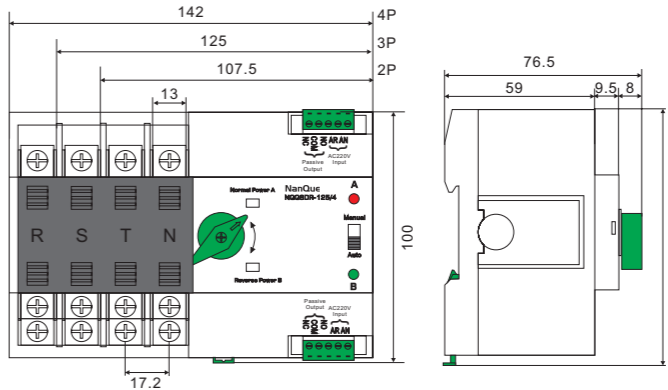
This product is applicable to dual-power supply systems with an alternating current of 50Hz/60Hz, a rated operating voltage of less than 400V, and a rated current of less than 125A. It simultaneously detects the two power sources in the three-phase four-wire power grid, namely the common power source (N) and the standby power source (R). When any phase of the common power source experiences undervoltage (including phase loss), it will automatically switch from the common power source to the standby power source (manual switching can also be set). When the common power source is restored, it will automatically switch back to the common power source for power supply, enabling users to achieve an unattended substation for power supply. As the requirements for the safety and reliability of power supply systems become increasingly higher, automatic transfer switches are more and more widely used in important places where power outages are not allowed, such as power systems, hospitals, postal and telecommunications, fire protection, hotels, banks, airports, docks, residential quarters, high-rise buildings, television stations, military facilities, and shopping malls.

The ATS compliant with GB/T 14048.11 and IEC 60947-6-1 standard

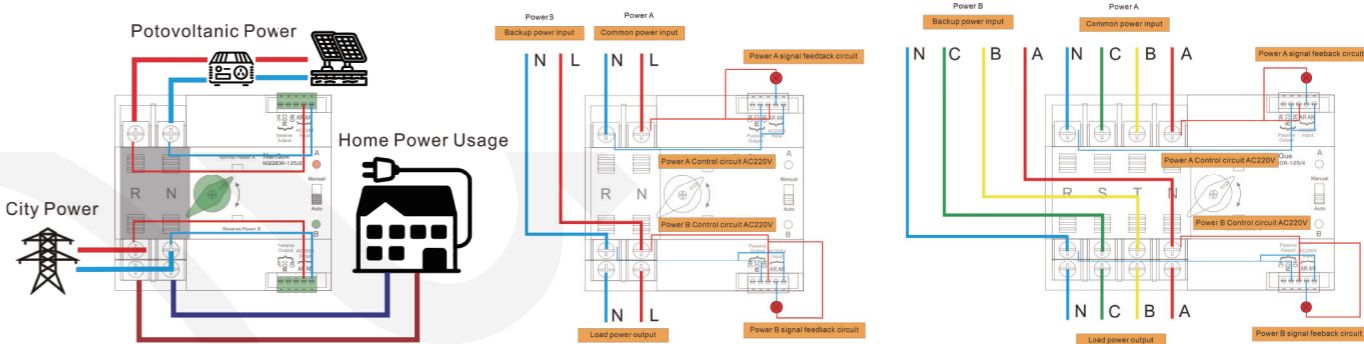
PARAMETERS

Product Model	NQQ8DR-125
Type	Grid (P) - Grid (P), Grid (P) - Oil Engine (G), Grid (P)-Photovoltaic(PV)
Electrical Characteristics	
Pole Number	2P, 3P, 4P
Rated Current Ie (A) Support Customization of Other Currents	63, 80, 100, 125
Rated Voltage Ue (V)	120, 230, 400
Rated Insulation Voltage Ui (V)	800
Rated Withstand Impulse Voltage Uimp (kV)	8
Electrical category	PC Class
Usage Category	AC - 33B(63/80/100/125/140)
Rated Short - time Withstand Current Icw (kA)	8
Rated Short - circuit Making Capacity Icm (kA)	17
Operation Method	Auto, Manual
Mechanical Characteristics	
Mechanical Service Life (Times)	8000
Electrical Service Life (Times)	2000
Transfer Time	≤0.008s
Installation Characteristics	
Terminal	Press Plate Type
Maximum Torque (N.m)	4
Installation	Standard DIN rail (35mm width), Panel bracket installation

SIZE (UNIT: MM)



WIRING METHOD



CONNECTING CABLE

	Current	Recommended Cable (mm²)	Example Terminals
NQQ8DR-125	63A	16	SC16-6
	80A-100	25	SC25-6
	125A	35	SC35-6

PRECAUTIONS AND WARNING

- Pre-operation Safety**
Disconnect and verify both power sources are dead with a tester before operation. Never work on live units—risk of electric shock. Keep the area free of flammables or dust.
- Mode Switching**
Check voltage/frequency match before switching manual/auto modes. Avoid forced switching during load surges; may cause malfunctions or damage. Watch for jams/noises manually.
- Maintenance Rules**
Never skip insulation tests or interlock checks. Clean contacts with alcohol (no sandpaper). Ensure no simultaneous closing of two sources to prevent short circuits.
- Load Limits**
Never exceed rated current. Avoid sudden heavy inductive loads. Overload can weld contacts or trip circuits. Size ATS for load type, with 1.5-2x margin for inductive loads.
- Abnormal Handling**
Shut off both sources immediately if ATS switches frequently, smells odd, or flashes. No resetting—risk of fire. Only qualified technicians repair; test after fixing.