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› YWBL-WH Automatic Transfer Switch 400V 100A 4P Instruction Manual

YWBL-WH FTVOGUE4a8w2egs9v

YWBL-WH Automatic Transfer Switch 400V 100A 4P

Model: FTVOGUE4a8w2egs9v

1. PRODUCT OVERVIEW

The YWBL-WH Automatic Transfer Switch (ATS) is a miniature household switch designed to ensure continuous power supply by automatically switching between a main power source and a standby power source. This 4-pole, 100A, 400V device is ideal for applications requiring uninterrupted power, such as photovoltaic (PV) systems and emergency power setups in both residential and industrial environments.



Figure 1: Front view of the YWBL-WH Automatic Transfer Switch, showing the manual/auto selector and power indicators.

2. IMPORTANT SAFETY INFORMATION

Please read and understand all safety instructions before installation and operation. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Temperature Limits:** The maximum ambient temperature must not exceed 40°C, and the minimum temperature must not be below -5°C. The average temperature within 24 hours must not exceed 35°C.
- **Altitude:** The installation altitude must not be higher than 2000 meters above sea level.
- **Humidity:** If the maximum temperature reaches 40°C, the relative humidity at the installation site should not exceed 50%. If the temperature is -5°C, the relative humidity can be higher, for example, 90% at 25°C.
- **Condensation:** Due to temperature fluctuations, special measures should be taken to counteract occasional condensation on the product.
- **Professional Installation:** Installation and maintenance should only be performed by qualified electricians in accordance with local electrical codes and regulations.
- **Power Disconnection:** Always disconnect all power sources before performing any installation, wiring, or maintenance.

3. PRODUCT FEATURES

- **Fast Switching:** Ensures continuity, reliability, and safety of power supply by instantly switching to standby power in milliseconds when the normal power supply is abnormal.
- **Compact Design:** Features reliable transfer, convenient installation, easy maintenance, and a long service life.
- **Primary Function:** Automatically tests whether the main power supply or standby power supply is normal to guarantee continuous, reliable, and safe power.
- **Application:** Specifically designed for household rail mounting, suitable for PZ30 distribution boxes.
- **Wide Application:** Ideal for various locations where continuous power is critical, such as factories, shopping malls, and nurseries.

4. SETUP AND INSTALLATION

The YWBL-WH Automatic Transfer Switch is designed for rail mounting within a PZ30 distribution box. Professional installation is highly recommended to ensure correct wiring and safe operation.

4.1 Mounting

1. Ensure all power to the distribution box is disconnected at the main breaker.
2. Mount the ATS securely onto the DIN rail within the PZ30 distribution box.
3. Verify that the switch is firmly attached and does not wobble.

4.2 Wiring

Refer to the wiring diagram provided on the device and consult a qualified electrician for proper connection. The device supports two power inputs (Normal Power A and Reverse Power B) and provides output to the load.



Figure 2: Detailed view of the power terminals (R, S, T, N) for input and output connections.

- Connect the main power supply (Normal Power A) to the designated input terminals.
- Connect the standby power supply (Reverse Power B, e.g., from a generator or PV inverter) to its respective input terminals.
- Connect the load (house/industrial circuit) to the output terminals of the ATS.
- Ensure all connections are tight and secure to prevent loose contacts and overheating.

5. OPERATING INSTRUCTIONS

The Automatic Transfer Switch offers both automatic and manual operation modes.

5.1 Automatic Mode

1. Set the selector switch on the front panel to the 'Auto' position.
2. In this mode, the ATS will automatically monitor the main power supply (Normal Power A).
3. If Normal Power A fails or becomes abnormal, the ATS will automatically switch the load to the standby power supply

(Reverse Power B) within milliseconds.

4. When Normal Power A is restored, the ATS will automatically switch the load back to Normal Power A.

5.2 Manual Mode

1. Set the selector switch on the front panel to the 'Manual' position.
2. In manual mode, you can manually select between Power A and Power B using the toggle switch.
3. This mode is typically used for testing, maintenance, or in situations where automatic switching is not desired.



Figure 3: Top view showing the manual/auto selector switch and power source indicators.

6. MAINTENANCE

Regular maintenance ensures the longevity and reliable operation of your Automatic Transfer Switch.

- **Visual Inspection:** Periodically inspect the ATS for any signs of damage, loose connections, or discoloration.
- **Cleaning:** Keep the device clean and free from dust and debris. Use a dry, soft cloth for cleaning. Do not use liquid cleaners.

- **Connection Checks:** Ensure all terminal connections remain tight. Loose connections can lead to overheating and malfunction.
- **Functional Testing:** It is recommended to periodically test the automatic transfer function by simulating a main power failure (if safely possible and advised by a professional).
- **Professional Service:** For any complex issues or internal inspections, consult a qualified electrician.

7. TROUBLESHOOTING

If you encounter issues with your Automatic Transfer Switch, consider the following common troubleshooting steps:

- **No Power Output:**
 - Check if both main and standby power sources are active.
 - Verify that the ATS is in 'Auto' mode if automatic switching is desired.
 - Inspect all wiring connections for looseness or damage.
- **Failure to Transfer:**
 - Ensure both power sources are correctly connected and providing stable voltage.
 - Check the selector switch position.
 - If in 'Auto' mode, confirm that the primary power source has indeed failed or is outside acceptable parameters.
- **Overheating:**
 - Ensure proper ventilation around the device.
 - Check for loose connections, which can cause resistance and heat.
 - Verify that the load current does not exceed the rated 100A.

If problems persist after performing these checks, contact a qualified electrician or the manufacturer for assistance.

8. SPECIFICATIONS

Specification	Value
Brand	YWBL-WH
Model Number	FTVOGUE4a8w2egs9v
Switch Type	Automatic Transfer Switch
Operating Mode	ON-OFF
Current Rating	100 Amperes
Operating Voltage	400 Volts (AC)
Contact Type	Working Contact
Connector Type	Clamp
Terminal Type	Through Hole
Material	Polycarbonate (PC)

Specification	Value
Circuit Type	2-Way
Mounting Type	Wall Mount (DIN Rail)
Actuator Type	Toggle Switch
Number of Positions	2
Upper Rated Temperature	40 Degrees Celsius
Control Type	App (Remote)
Wattage	40000 Watts
Remote Control Type	Application
Color	Silver
Country of Origin	China
Compliance	CE

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the documentation provided with your purchase or contact the seller directly. Keep your purchase receipt as proof of purchase.