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› MYSWEETY YL600 2.2KW Variable Frequency Drive Instruction Manual

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Model: YL600

1. INTRODUCTION AND OVERVIEW

The MYSWEETY YL600 Variable Frequency Drive (VFD) is designed to convert single-phase 220V AC power into three-phase 220V AC power, enabling precise speed control for various three-phase motors. This manual provides essential information for safe installation, operation, and maintenance of your VFD.

This VFD is suitable for applications such as spindle motors, drill presses, CNC machines, HVAC systems, lathes, milling machines, pumps, conveyors, and compressors.



Figure 1: MYSWEETY YL600 Variable Frequency Drive. This image shows the front and side view of the VFD unit with its control panel.

2. SAFETY INFORMATION

WARNING: Improper installation or operation can lead to electric shock, fire, or equipment damage. Always ensure power is disconnected before performing any wiring or maintenance.

- Ensure the input voltage matches the VFD's specifications (Single Phase AC 220V +/-15%).
- Proper grounding is essential for safety.
- Do not connect the VFD output (U, V, W) directly to single-phase power.
- If your motor is under heavy load, consider choosing a higher horsepower VFD or consult a professional for model selection.
- If your motor operates at 50Hz/60Hz, ensure the VFD's Hertz parameter is set consistently with the motor.

- No external resistor is supported unless customized by notifying the seller before purchase.

3. PRODUCT FEATURES AND COMPONENTS

The MYSWEETY YL600 VFD features a user-friendly design with a removable operation panel and robust internal components for stable and reliable performance.



Figure 2: Removable Operation Panel. The control panel can be detached for remote operation, offering flexibility in installation and use.

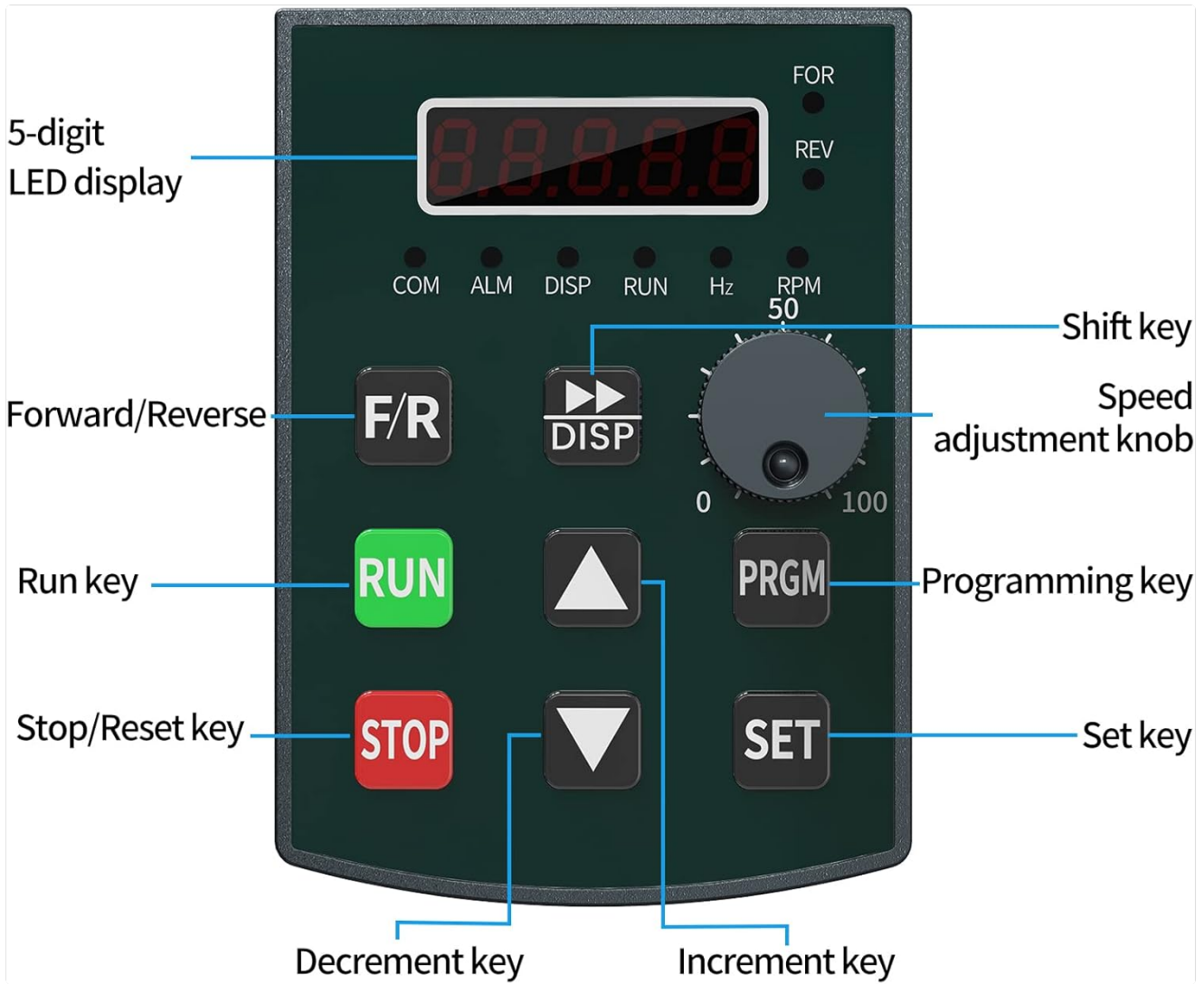


Figure 3: Control Panel Functions. This diagram labels the 5-digit LED display, Forward/Reverse (F/R) key, Run key, Stop/Reset key, Decrement key, Increment key, Shift key, Speed adjustment knob, Programming key (PRGM), and Set key.



Figure 4: Mainboard. The VFD features a 3-layer painted SMT mainboard with integrated components and 3-layer coatings to prolong service life.

Wide Application



Mine Fans



Water Pumps



Milling Machines



Mixers



Conveyor Belts



Air Compressor



Crusher

Figure 5: Product Dimensions. The VFD measures approximately 9.84 x 5.91 x 7.28 inches (200mm/7.87in height, 130mm/5.11in width, 102mm/4.01in depth).

4. SETUP AND INSTALLATION

4.1 Wiring the VFD to the Motor

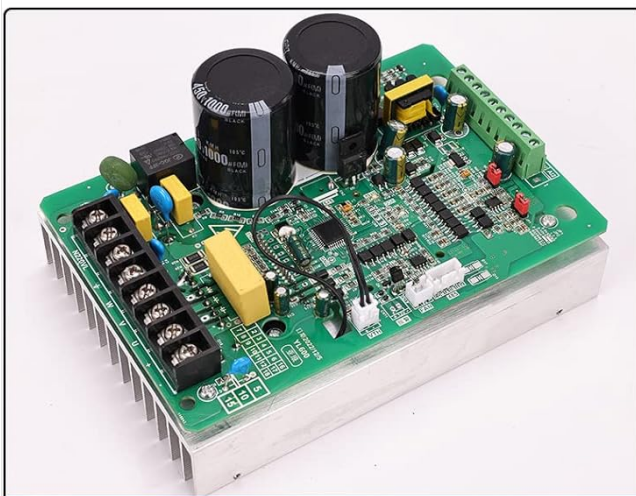
Proper wiring is crucial for safe and effective operation. Ensure all connections are secure and follow local electrical codes.



① Powerful cooling fan
Low noise,durable and powerful



② 4 pins 20cm connection cable
4 pins cable for Digital panel



③ The Newest mainboard
Three anti-paint protection circuit and Chrome plated screw make the VFD more durable



④ Removable Digital panel
Digital panel can removable,bring convenience operation for numerical control machine, we can add Extension cord for you,pls contact the customer service for the price.

Figure 6: VFD to Motor Wiring Diagram. This diagram illustrates connecting single-phase 220V input (N220VL) to the VFD, and the three-phase 220V output (U, V, W) from the VFD to the motor. Ensure proper grounding.

4.2 Initial Parameter Settings

After wiring, configure the VFD parameters according to your motor's specifications. The following videos demonstrate common parameter settings:

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Video 1: MOLLUM VFD G75 and G70 Introduction and setup process. This video provides a general introduction to VFD setup, including wiring and basic parameter adjustments. It covers connecting single-phase power, motor connections, and setting parameters like power, voltage, amperage, and frequency.

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Video 2: How to connect the VFD to the spindle. This video specifically demonstrates the physical connection process between a VFD and a spindle motor, highlighting the correct wiring for U, V, W terminals and grounding.

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Video 3: Inverter Parameter Setting. This video guides users through the process of setting various parameters on the VFD's control panel, such as motor power (F1-01), voltage (F1-02), amperage (F1-03), and frequency (F1-04), to match the motor's nameplate

specifications.

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Video 4: How to set the frequency of 50 to 60? This video demonstrates how to adjust the VFD's frequency settings, specifically from 50Hz to 60Hz, which is important for compatibility with different regional power standards.

5. OPERATION

5.1 Basic Control Panel Operation

Use the control panel keys to start, stop, and adjust the motor speed.

- **RUN:** Starts the motor.
- **STOP/RST:** Stops the motor or resets errors.
- **F/R:** Toggles forward/reverse direction.
- **Speed Adjustment Knob:** Adjusts the output frequency (motor speed).
- **PRGM:** Enters programming mode.
- **SET:** Confirms parameter settings.

5.2 External Control

The VFD supports external control methods, such as external switches, potentiometers, and RS485 communication, for integrated system control.

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Video 5: The external switch starts and stops. This video demonstrates how to configure and use an external switch to control the start and stop functions of the VFD, providing an alternative to the built-in control panel buttons.

6. TROUBLESHOOTING

If the VFD encounters an issue, an error code may be displayed on the screen. Refer to the following common error and troubleshooting steps:

- **ER04 (Short Circuit/IPM Alarm):** This indicates a short circuit or an issue with the internal power component module. Check if the motor is short-circuited, if the machine load is too large, or if the input voltage fluctuates. Improper settings of DC injection brake parameters or VF parameters can also cause this.
- **Other Error Codes:** For other specific error codes, consult the detailed troubleshooting section in the full user manual or contact MYSWEETY customer service.

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Video 6: What should I do if there is an error code of RE04? This video explains the meaning of the ER04 error code and provides steps to diagnose and resolve the underlying issue, such as checking for short circuits or motor load.

7. SPECIFICATIONS

Product Dimensions: 9.84 x 5.91 x 7.28 inches

Item Weight: 3.04 pounds

Model Name: YL600

Power Source: 220V (Single Phase Input)

Wattage: 2.2 KW

Output Frequency: 0-3200Hz

Rated Current: 10A

Manufacturer: MYSWEETY

8. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your MYSWEETY YL600 VFD.

- Keep the VFD clean and free from dust and debris.
- Ensure adequate ventilation around the unit to prevent overheating. The VFD is equipped with a powerful cooling fan for this purpose.
- Periodically check all wiring connections for tightness and signs of wear or damage.
- Avoid operating the VFD in environments with excessive moisture or corrosive substances.

9. WARRANTY AND SUPPORT

MYSWEETY is committed to providing quality products and customer satisfaction. For any concerns or technical assistance, please contact MYSWEETY customer service.

The product typically includes a 1-year warranty and lifelong technical support. For specific warranty details and to address any issues, please reach out to our support team.