

Yolin

User Manual for

E-bike Display

YL75E

Tianjin Yolin Technology Co., Ltd.

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1. Product name and model

Intelligent LED display for e-bike; model: YL75E.

2. Specifications

- 36V/48V power supply
- Rated working current 30mA
- Maximum working current 40mA
- Leakage current at power-off <1uA
- Working current at the supply controller end 50mA
- Working temperature -20~60℃
- Storage temperature -30~70℃

3. Appearance and dimensions



Fig. 3-1 Picture of Display 75E

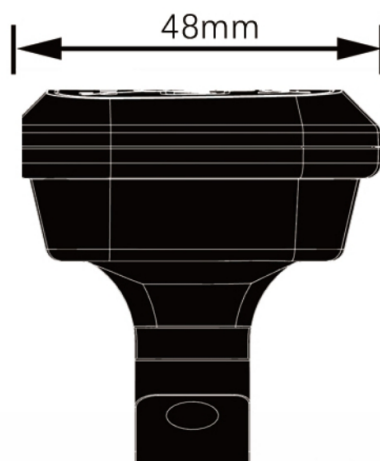


Fig. 3-2 Top View of Display 75E Dimensions

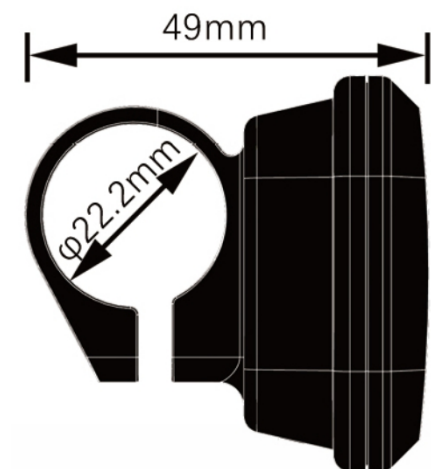


Fig. 3-3 Side View of Display 75E Dimensions

4. Function overview and functional area layout

4.1 Function overview

Display YL75E provides the following functions to meet the riding needs of users:

- Battery level indicator
- Assist level indicator
- Fault indicator

4.2 Functional area layout

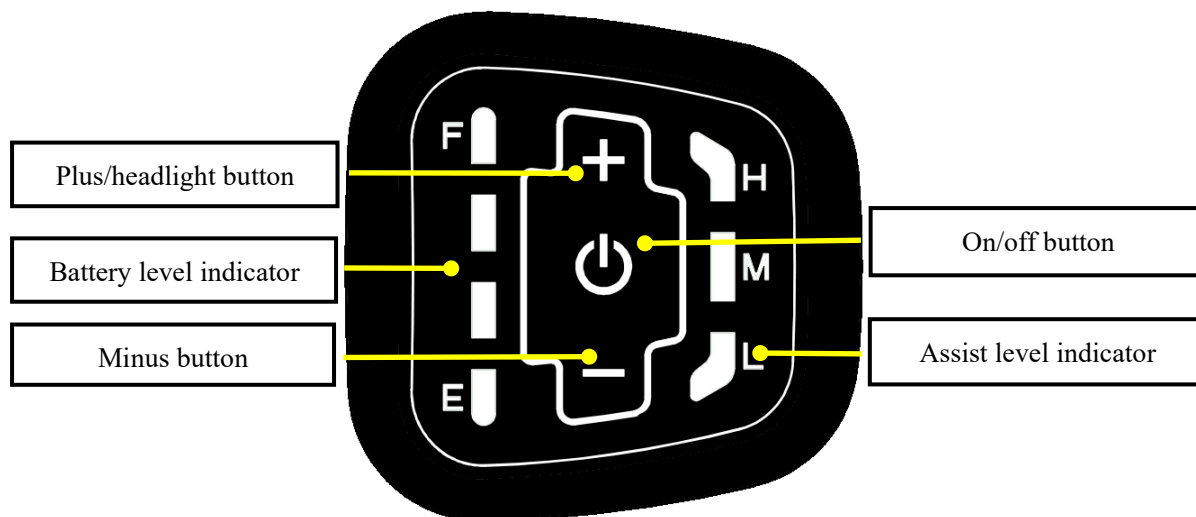







Fig. 4-1 Functional Area Layout Interface of Display YL75E

4.3 Button definitions

There are three buttons on the operating unit of display YL75E, i.e., the on/off button , plus button  and minus button .



5. General operation

5.1 Power on/off



By pressing and holding the button , the display will start to work and the working power supply of the controller will be turned on. In the power-on state, by pressing and holding the button , your e-bike will be powered off. In the power-off state, the display will no longer use the battery power, and its leakage current will be less than 1uA.

■ If your e-bike is not used for more than 10 minutes, the display will be automatically powered off.

5.2 Headlight on/off

When the ambient environment is dark or when driving at night, you may turn on the headlights. By pressing and holding the button , the controller will turn on the headlights. By pressing and holding the button  again, the controller will turn off the headlights.

5.3 Assist level selection

By pressing the button /, the e-bike assist level will be switched to change the motor output power. There are three assist levels available, i.e., Low (L), Medium (M) and High (H).

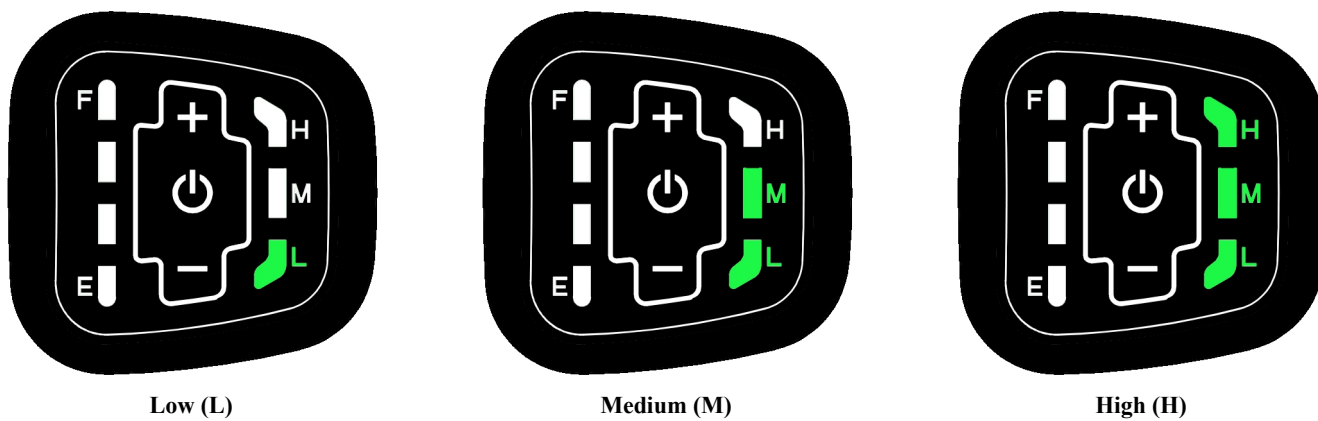


Fig. 5-1 Assist Level Switching Interface

5.4 Battery level indicator

The battery level indicator consists of five segments. The first three segments are green, and the last segment is red or green. In case of undervoltage, the last segment will flash red, indicating that the battery has to be charged immediately.

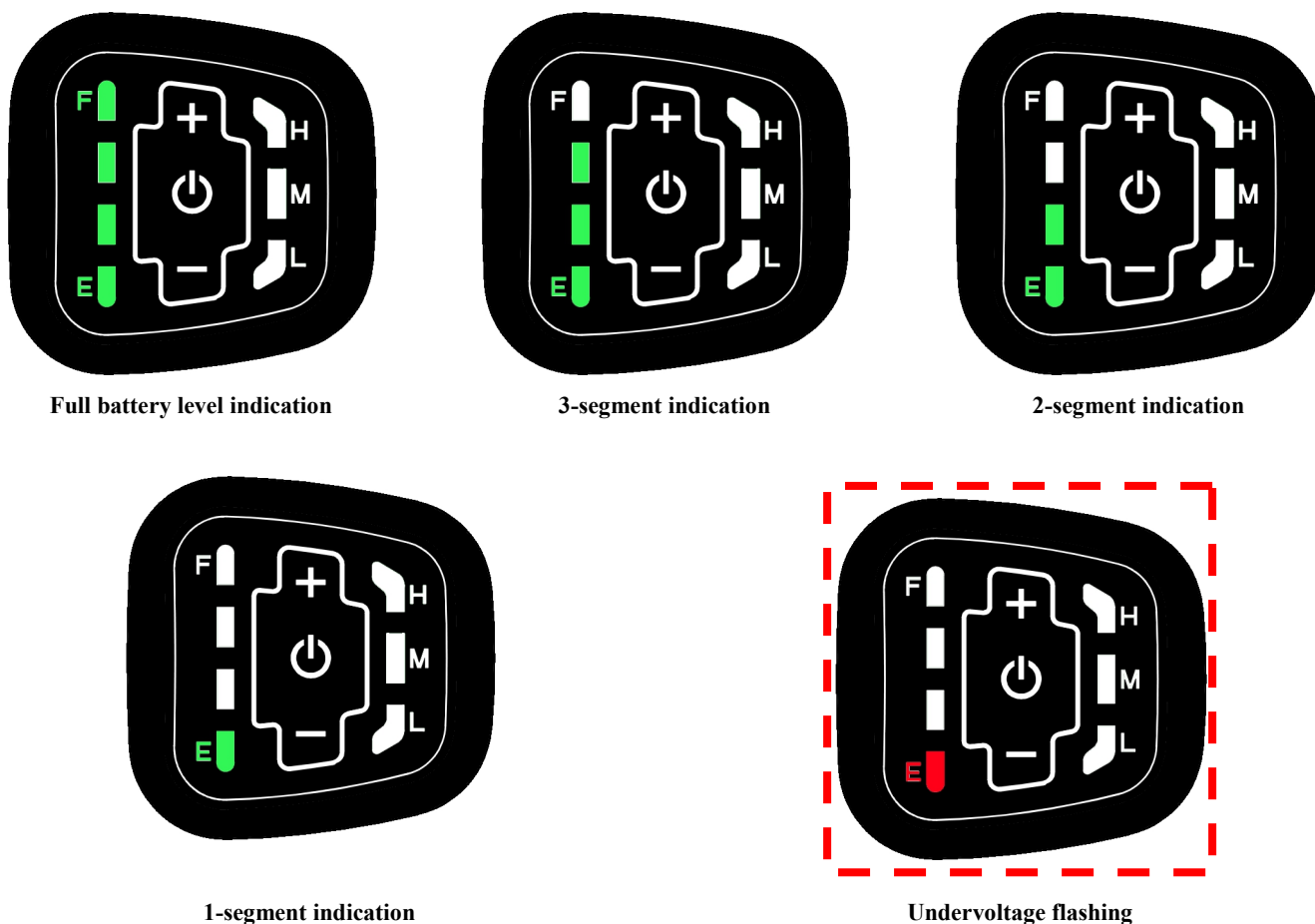


Fig. 5-2 Battery Level Indicator Interface

5.5 Fault indicator

When a fault occurs in the electronic control system of your e-bike, the assist level indicator of the display will work as the fault indicator, and the corresponding fault signal will flash. Detailed definitions of fault code indicators are shown in **Schedule 1**.

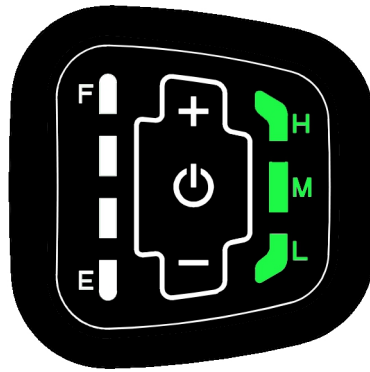


Fig. 5-3 Fault Indicator Interface

■ When the fault indicator is flashing, please conduct troubleshooting in time. Otherwise, your e-bike will not work normally.

6. Quality commitments and warranty scope

6.1 Warranty information:

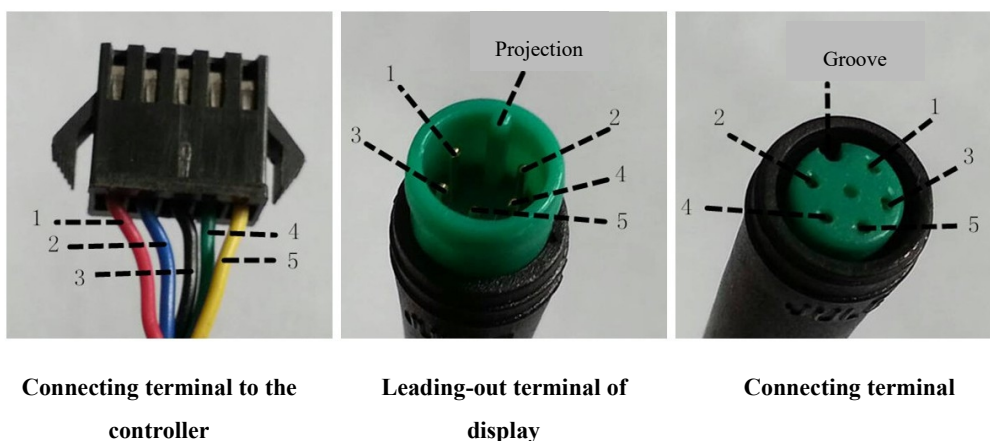
- For the faults caused by the quality of the product under normal use, the Company will be responsible for providing limited warranty during the warranty period.
- The warranty period of the product is within 12 months from delivery.

6.2 Non-warranty scope

- The enclosure is opened
- The connector is damaged
- The enclosure is scratched or damaged after delivery
- The outgoing line of the display is scratched or broken
- Faults or damage caused by force majeure (such as fires, earthquakes, etc.) or natural disasters (such as lightning strikes, etc.)
- The warranty period has expired

7. Outgoing line connection diagram

7.1 Wiring sequence of standard connector

Connecting terminal to the
controllerLeading-out terminal of
display

Connecting terminal

Fig. 7-1 Outgoing Line Connection Diagram

Table 7-1 Wiring Sequence of Standard Connector

Standard wiring sequence	Standard wire color	Function
1	Red (VCC)	Power cord of display
2	Blue (Kp)	Power control line of controller
3	Black (GND)	Ground wire of display
4	Green (RX)	Data receiving line of display
5	Yellow (TX)	Data transmission line of display

■ The outgoing lines of some products adopt waterproof connectors, and users cannot see the outgoing line color inside the wire harnesses.

8. Considerations

Please use safely, and do not plug or unplug the display when it is powered on.

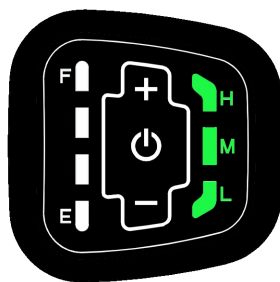
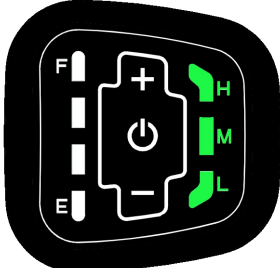
◆ Please avoid bumping as far as possible.

◆ Please do not alter the background parameter settings of the display at will, otherwise normal riding cannot be guaranteed.

◆ If the display fails to work normally, it should be repaired as soon as possible.

◆ Due to product upgrades of the Company, part of the displayed contents or functions of the product you bought may be different from the manual, depending on the actual model.

Schedule 1: Fault Indicator Definitions

Fault indicator definitions for protocol type 1		
Fault description	Fault indicator flashing	Fault indicator
Brake failure	Fault indicator flashing twice	
Default phase of motor	Fault indicator flashing 4 times	
Motor Hall element failure	Fault indicator flashing 4 times	
Handlebar failure	Fault indicator flashing 5 times	
Abnormal current	Fault indicator flashing 6 times	
Communication receiving failure	Fault indicator flashing 7 times	
Communication transmission failure	Fault indicator flashing 8 times	
Fault indicator definitions for protocol type 2		
Fault description	Fault indicator flashing	Fault indicator
Communication failure	Level L, M and H indicators flashing	
Abnormal current	Level L indicator flashing	
Brake failure	Level M indicator flashing	
Handlebar failure	Level H indicator flashing	
Default phase of motor	Level L and H indicators flashing	
Motor Hall element failure	Level M and H indicators flashing	

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