

Varstrom LSEU-VD618 Display

Varstrom VD618 Display User Manual

Comprehensive guide for installation, operation, and maintenance of your Varstrom VD618 Display.

1. PRODUCT OVERVIEW

The Varstrom VD618 Display is an advanced LCD screen designed for BAFANG e-bike systems. It provides clear, real-time data and offers various customizable settings to enhance your riding experience. This display features a triangular connector, specifically designed for BAFANG motors utilizing the CAN protocol.



Figure 1: Varstrom VD618 Display and Control Pad

The 3.5-inch HD LCD screen ensures data is clear and easy to read, even while riding. It integrates essential functions such as speed display, power output, battery level, and various trip metrics.

PRODUCT SPECIFICATION



• Connector:	Male 5 PIN	• Button Holder:	ø22.2mm
• Protocol:	CAN	• Display Holder:	ø31.8/25.4/22.2(mm)
• Screen:	3.5" TFT	• Waterproof:	IP66
• Voltage:	36V/48V/52V/60V/72V	• Charge Port:	Type-c
• PAS Level:	3、5、9 Optional	• Operating temperature:	-20°C ~ 60°C
• Speed Limited:	0km/h ~ 100km/h	• Storage temperature:	-30°C ~ 70°C
• Brightness:	1~3 Optional	• Auto OFF:	0~60min Optional

Figure 2: Detailed view of VD618 Digital Display features and readouts.

2. COMPATIBILITY

The Varstrom VD618 Display is equipped with a triangular connector specifically designed for BAFANG motors using the CAN protocol. It is compatible with 2025 versions of BBS01B, BBS02B, and BBS-HD motors that have been updated to the CAN protocol. It also supports BAFANG M200, M400, M420, M500, M510, M600, M620, M625, M325, and M225 systems.

COMPATIBILITY



CAN PROTOCOL
(5 Pin Male Triangular)

UART PROTOCOL
(5 Pin Female Round)

Other Mid Drive Motor

M200 M300 M400 M410 M420 M500
M560 M510 M600 M620 M800 M820

Other Brand Motor

H400

Other Hub Motor

RM G020.36V 250w.DC	RM G020.48V 500w.DC
FM G020.500.D	RM GOFO.48V 750w.
DCRM G060.48V 750w.DC	RM G062.48V 1000w.DC
RM G0900.48V 750w.DC	

BBS Series Motor (UART Version)

NEWEST CAN Version BBS Motor

Figure 3: Compatibility overview showing CAN protocol and supported BAFANG motors.

Important: This display is designed for CAN protocol systems. It is not compatible with UART protocol systems. Please verify your motor's protocol before installation.

CABLE PARAMETERS

- This image shows the wiring diagram of the display cable coming from the 1T4 cable.
- Please confirm with the seller of motor that if your cable is with the same wiring diagram.
- Attention: If the wiring diagram is different, the display will not work.

Female 5 Pins Our EB1T4 Connector



Male 5 Pins Our Display Connector



Figure 4: Wiring diagram for the display cable, showing Female 5 Pins (EB1T4 Connector) and Male 5 Pins (Display Connector).

3. SETUP AND INSTALLATION

3.1 Mounting the Display

The display is compatible with handlebars of 22.2 mm, 25.4 mm, and 31.8 mm diameters. The control button unit fits standard 22.2 mm handlebars. Ensure the mounting bracket is securely fastened to your handlebar at a comfortable viewing angle.

Compatible With Most Handlebars



The adjustable mount fits handlebar diameters of 31.8mm, 25.4mm and 22.2mm, fitting most bicycles and ensuring a perfect fit.

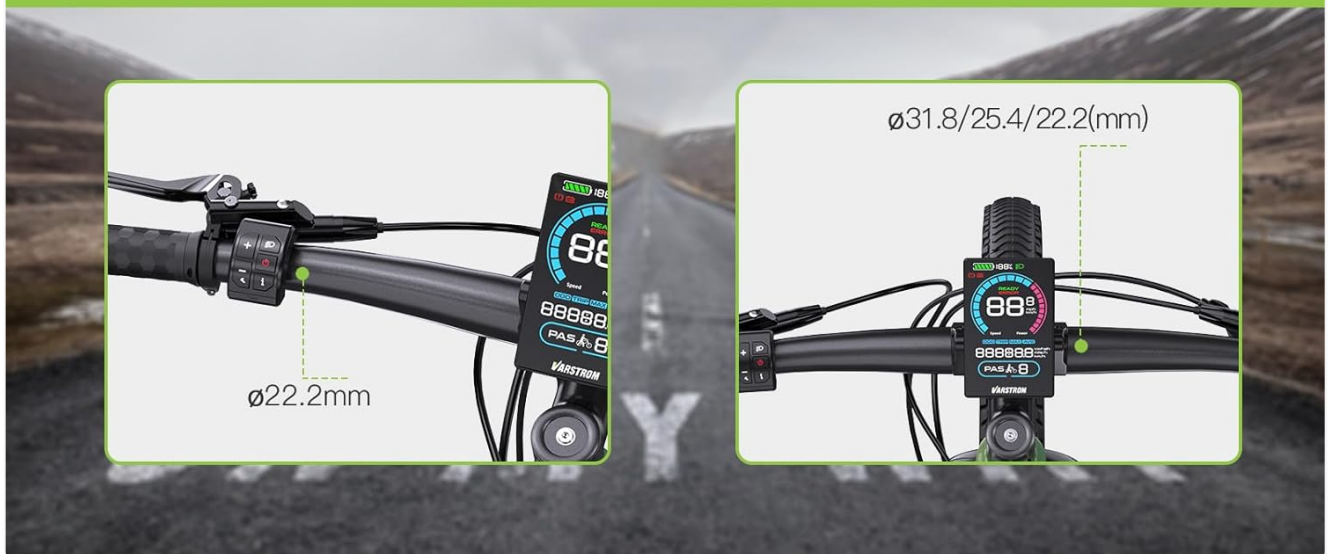


Figure 5: The adjustable mount fits handlebar diameters of 31.8mm, 25.4mm, and 22.2mm.

3.2 Connecting the Cables

1. Carefully align the triangular connector from the display with the corresponding port on your BAFANG motor system.
2. Push firmly until the connector clicks into place, ensuring a secure connection.
3. Route the cables neatly along your bike frame, securing them with cable ties to prevent snagging or damage.

4. OPERATING INSTRUCTIONS

4.1 Powering On/Off

- To power on the display, press and hold the power button on the control pad for a few seconds.
- To power off, press and hold the power button again until the display shuts down. The display also features an auto-off function, configurable from 0-60 minutes.

4.2 Key Features and Functions

- **Waterproof Rating:** IP66, providing protection against dust and powerful water jets.
- **PAS Levels:** Supports 0-3, 0-5, or 0-9 PAS (Pedal Assist System) levels, which can be configured.
- **USB Type-C Charging Port:** (5V 1000mA) for charging external devices.
- **Adjustable Brightness:** 1-3 levels of brightness for optimal visibility in various conditions.
- **Automatic Backlight:** The display features light-sensitive automation for automatic backlight adjustment (Figure 6).
- **Speed Limit Setting:** Configurable speed limit.
- **Wheel Size Configuration:** Allows setting the correct wheel size for accurate speed and distance readings.
- **Unit Interchangeability:** Switch between miles and kilometers.
- **Power Display:** View power in percentage or voltage.
- **Trip Meter, Odometer, and Average Speed:** Essential riding data displayed clearly.

AUTOMATIC BACKLIGHT

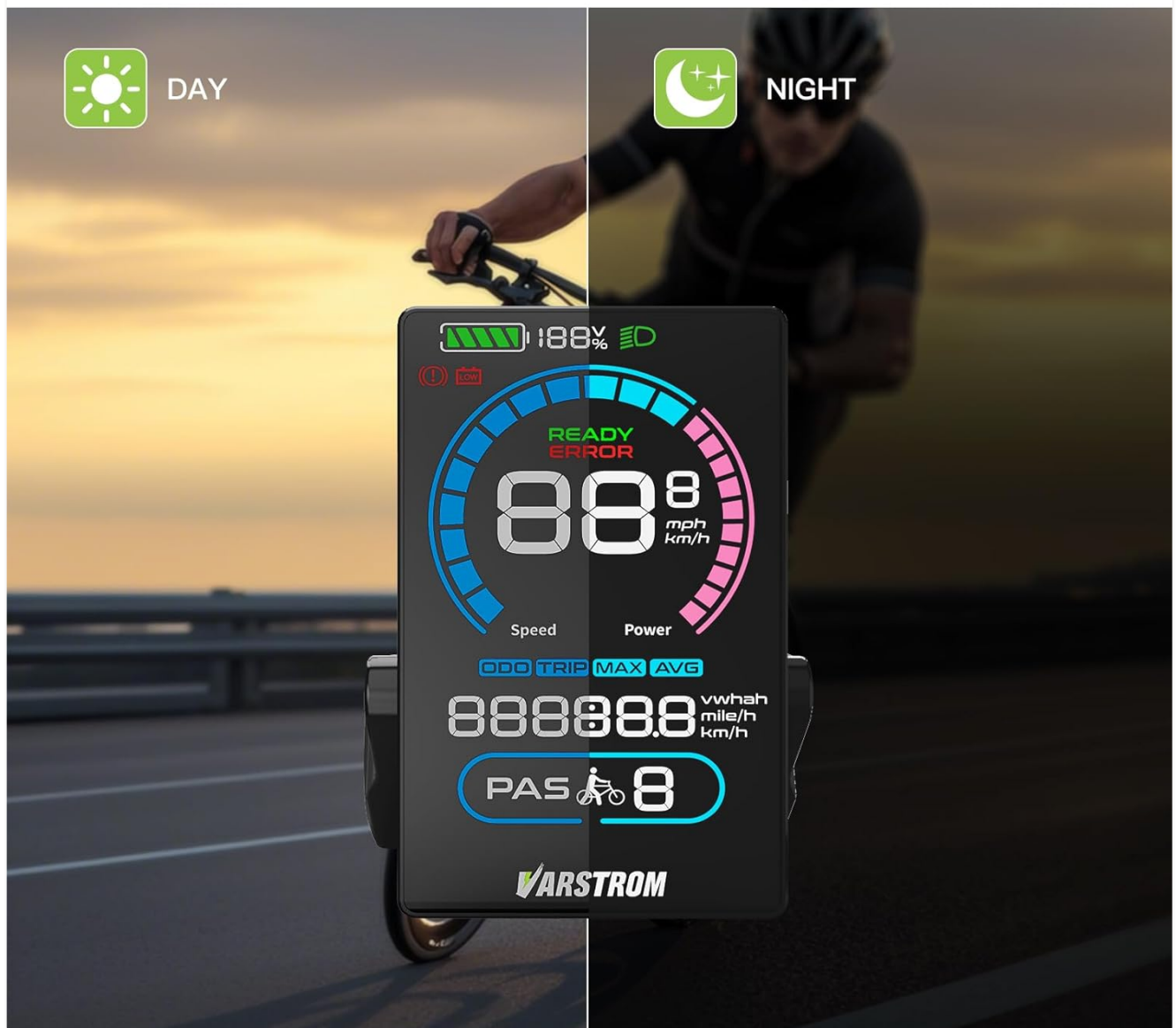


Figure 6: Automatic backlight adjustment for day and night riding.

5. MAINTENANCE

To ensure the longevity and optimal performance of your Varstrom VD618 Display, follow these maintenance guidelines:

- **Cleaning:** Wipe the display screen and body with a soft, damp cloth. Avoid using abrasive cleaners or solvents that could damage the screen or casing.
- **Connection Check:** Periodically check all cable connections to ensure they are secure and free from corrosion.
- **Storage:** When not in use for extended periods, store the display in a dry, cool place, away from direct sunlight and extreme temperatures.
- **Water Exposure:** While the display is IP66 waterproof, avoid submerging it in water or exposing it to high-pressure water jets for prolonged periods.

6. TROUBLESHOOTING

If you encounter issues with your Varstrom VD618 Display, consider the following common troubleshooting steps:

- **Display Not Turning On:**
 - Ensure the battery is charged and properly connected to the motor system.
 - Check all cable connections between the display, control pad, and motor for looseness or damage.
- **Incorrect Readings (Speed/Distance):**
 - Verify that the correct wheel size is configured in the display settings. Refer to the detailed instruction manual (often available via QR code provided with the product) for setting parameters.
- **Settings Difficult to Change/Save:**
 - Some settings may require specific button sequences or confirmation steps. Consult the comprehensive digital manual for precise instructions on navigating and saving settings.
- **Display Draining Battery Excessively:**
 - Ensure the display is set to auto-off after a reasonable period of inactivity.
 - Check for any background processes or settings that might be consuming more power than expected.
- **Error Messages:**
 - If an error message appears, note the code and refer to the full digital manual for specific error definitions and solutions.

If these steps do not resolve the issue, please contact customer support.

7. SPECIFICATIONS

VD618 Digital Display



Figure 7: Detailed product specifications and dimensions.

Feature	Description
Connector	Male 5 PIN (Triangular)
Protocol	CAN
Screen	3.5" TFT HD LCD
Voltage Compatibility	36V/48V/52V/60V/72V
PAS Level Options	3, 5, 9 (Optional)
Speed Limit	0km/h ~ 100km/h
Brightness	1-3 Optional

Button Holder Diameter	Ø22.2mm
Display Holder Diameter	Ø31.8/25.4/22.2(mm)
Waterproof Rating	IP66
Charge Port	Type-C (5V 1000mA)
Operating Temperature	-20°C ~ 60°C
Storage Temperature	-30°C ~ 70°C
Auto OFF	0-60min Optional
Cable Length (Display)	300mm (11.8")
Cable Length (Control Pad)	310mm (12.2")

8. WARRANTY AND SUPPORT

8.1 Warranty Information

The Varstrom VD618 Display comes with a limited warranty. Please refer to your purchase documentation or contact the seller for specific details regarding the warranty period and coverage. Typically, this covers manufacturing defects under normal use.

8.2 Customer Support

For technical assistance, troubleshooting, or warranty claims, please contact your retailer or the manufacturer directly. Ensure you have your product model number (LSEU-VD618 Display) and purchase details ready when contacting support.