

## Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

- › [BAFANG](#) /
- › [BAFANG DPC18 Ebike Display User Manual](#)

## BAFANG DPC18 Display-UART

# BAFANG DPC18 Ebike Display User Manual

Model: DPC18 Display-UART | Brand: BAFANG

[Overview](#) [Package Contents](#) [Setup &](#)  
[Installation](#) [Operation](#) [Maintenance](#) [Troubleshooting](#) [Specifications](#) [Warranty](#)

## 1. PRODUCT OVERVIEW

The BAFANG DPC18 Ebike Display is a high-definition color screen computer designed for BAFANG BBS01B, BBS02B, and BBSHD mid-drive motors utilizing the UART communication protocol. It provides essential riding data and control functions for an enhanced e-bike experience.



Figure 1.1: BAFANG DPC18 Ebike Display with its control pad. This display is designed to integrate seamlessly with compatible BAFANG mid-drive motors, offering a clear interface for monitoring ride data.

## Key Features:

- **Compatibility:** Specifically designed for BAFANG BBS01B, BBS02B, and BBSHD mid-drive motors with UART protocol. It is not compatible with other motor types or brands.
- **High-Definition Display:** Features a 3.5-inch HD color screen for clear and easy readability of all data.
- **Automatic Backlight:** The display automatically adjusts its brightness based on ambient light conditions, ensuring optimal visibility day or night.
- **Pedal Assist Levels (PAS):** Supports 0-9 levels of pedal assist, allowing riders to customize their assistance preference.
- **Integrated USB Charging Port:** Includes a DC 5V USB port (0.5A output) for convenient charging of mobile devices in emergency situations.
- **Waterproof Design:** Rated IPX5 for water resistance, providing protection against splashes and light rain.

## 2. PACKAGE CONTENTS

Upon opening the package, please verify that all components are present and undamaged. The standard package for the BAFANG DPC18 Display typically includes:

- BAFANG DPC18 Ebike Display Unit
- Control Pad with integrated buttons
- Handlebar Mount Bracket
- Mounting Screws and Rings (typically 3 screws and 2 rings for secure attachment)



Figure 2.1: The BAFANG DPC18 Display unit shown with its control pad, mounting rings, and screws. These are the primary components included in the product package.



Figure 2.2: The retail packaging box for the BAFANG DPC18 Display. Please check the label for product details and manufacturing information.

### 3. SETUP & INSTALLATION

Proper installation is crucial for the display's functionality and your safety. Ensure your e-bike motor is a BAFANG BBS series (BBS01B, BBS02B, BBSHD) with UART protocol before proceeding.

#### 3.1. Compatibility Check

The DPC18 display is designed exclusively for BAFANG BBS series mid-drive motors that use the 5-pin female round UART protocol connector. It is not compatible with CAN protocol (5-pin male triangular) or other brands/types of motors, including BAFANG hub motors or other BAFANG mid-drive motors not specified.



Figure 3.1: Visual guide for display compatibility. Ensure your motor uses the UART protocol with a 5-pin female round connector for proper function.

#### 3.2. Mounting the Display

1. **Choose Location:** Select a suitable position on your handlebar for the display and control pad. Ensure it does not obstruct your view or interfere with braking/shifting.
2. **Attach Mount:** Secure the handlebar mount bracket to your handlebar using the provided screws and rings. The mount is adjustable for handlebar diameters between 25.4mm and 31.8mm.
3. **Secure Display:** Slide the DPC18 display onto the mount until it clicks into place.
4. **Position Control Pad:** Attach the control pad to a comfortable position near your thumb for easy access during riding.



Figure 3.2: Dimensions of the DPC18 display and its adjustable extension mount. This image provides measurements for planning installation space on your handlebar.

### 3.3. Connecting the Cables

Connect the display's cable to the corresponding UART port on your BAFANG mid-drive motor's wiring harness (typically a BAFANG 1T4 cable). Ensure the 5-pin round connectors are aligned correctly and firmly pushed together to create a secure, waterproof connection.

# Throttle Harness Connection

Please confirm the wiring and shape of connector before ordering, or this item will NOT COMPATIBLE with your bike!

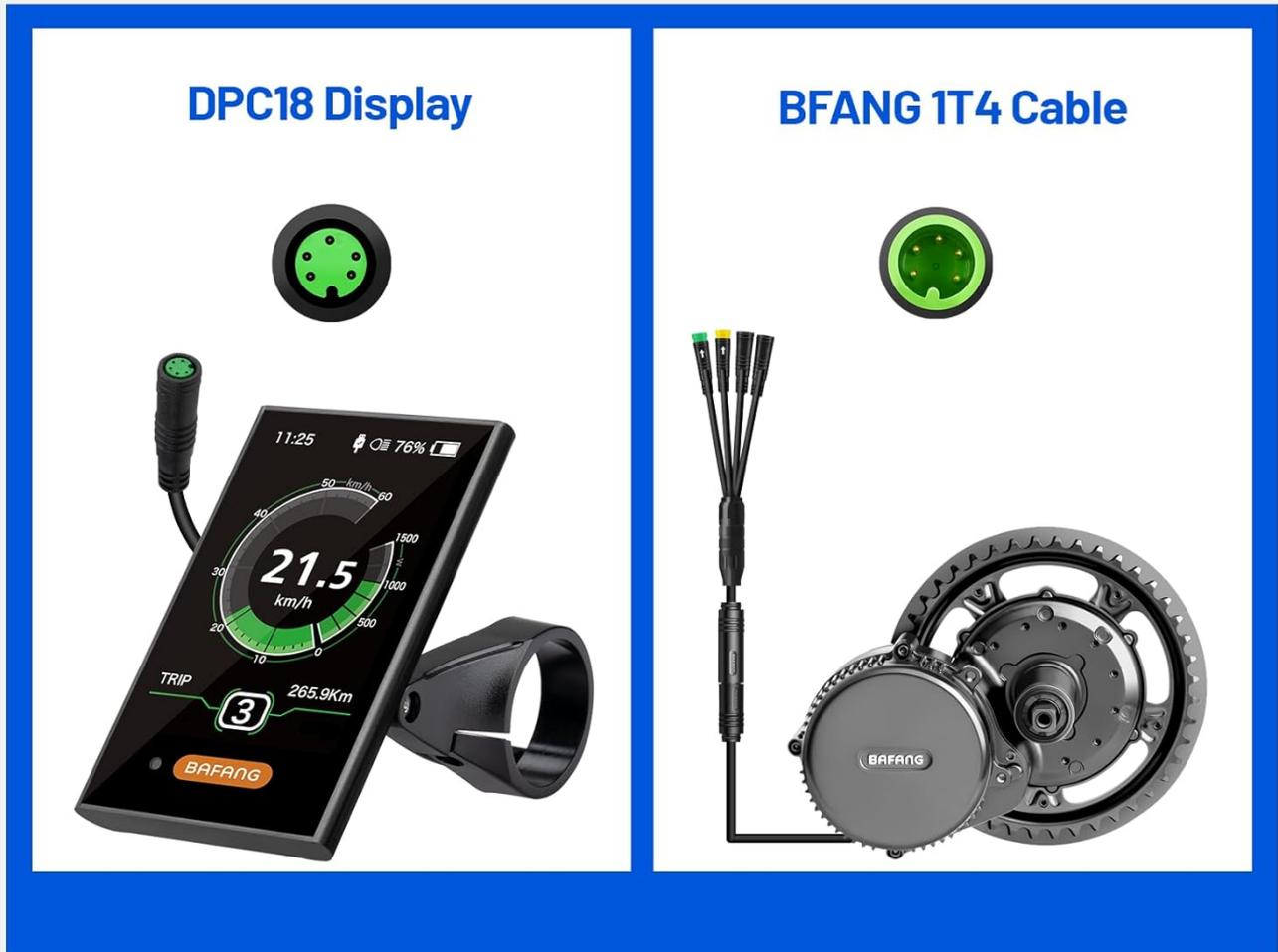


Figure 3.3: Illustration of the correct throttle harness connection. Verify the wiring and connector shape (5-pin round) to ensure compatibility and proper function.

The display supports adaptive voltage for 36V, 43V, and 48V e-bike systems, automatically adjusting to your battery's voltage.

# Adaptive Voltage

36V

43v

48v



Figure 3.4: The DPC18 display is compatible with 36V, 43V, and 48V e-bike battery systems, automatically adapting to the detected voltage.

## 4. OPERATION

The DPC18 display provides comprehensive information and control over your e-bike system. All interactions are performed via the external control pad.

### 4.1. Powering On/Off

- **To Power On:** Press and hold the power button on the control pad.
- **To Power Off:** Press and hold the power button again until the display shuts down.

### 4.2. Display Information

The 3.5-inch HD screen clearly shows various riding parameters:

- Current Speed (km/h or mph)
- Battery Level Indicator
- Pedal Assist Level (PAS)
- Trip Distance
- Total Odometer
- Estimated Remaining Range (calculated based on PAS level)
- Error Codes (if any)



Figure 4.1: The DPC18 display interface, showing speed, battery, PAS level, and trip distance. The screen provides a comprehensive overview of your ride data.

### 4.3. Adjusting Pedal Assist Levels (PAS)

Use the "+" and "-" buttons on the control pad to cycle through the 0-9 pedal assist levels. Level 0 provides no assistance, while Level 9 provides maximum assistance.

### 4.4. Automatic Backlight

The display features an automatic backlight function that adjusts screen brightness according to ambient light conditions. This ensures readability in both bright daylight and low-light environments.



Figure 4.2: The display's automatic backlight adjusts for optimal visibility in both day and night conditions, enhancing user experience.

#### 4.5. USB Charging Port

The DPC18 display includes a DC 5V / 0.5A USB-A port located on its underside. This port can be used to charge small electronic devices like smartphones in emergency situations. Ensure the port cover is securely closed when not in use to maintain water resistance.

# Built-in USB Charging Port

5V / 0.5A Output for  
Smartphone Charging



Figure 4.3: The integrated USB charging port on the DPC18 display, providing a convenient power source for mobile devices.

## 4.6. ECO/SPORT Mode (if applicable)

Some configurations of the DPC18 display may offer an ECO/SPORT mode. This mode can be toggled to optimize power delivery for either extended range (ECO) or increased performance (SPORT). Refer to your motor's specific programming for details on how this feature interacts with PAS levels.



Figure 4.4: Visual comparison showing the display interface with and without the ECO/SPORT mode indicator. This feature allows for dynamic adjustment of riding characteristics.

## 5. MAINTENANCE

To ensure the longevity and optimal performance of your BAFANG DPC18 display, follow these maintenance guidelines:

- **Cleaning:** Wipe the display screen and body with a soft, damp cloth. Do not use abrasive cleaners, solvents, or spray water directly onto the unit.
- **Water Resistance:** While the display is IPX5 waterproof (protected against low-pressure water jets from any direction), avoid submerging it in water or exposing it to high-pressure water sprays (e.g., from a pressure washer). Always ensure the USB port cover is sealed when not in use to maintain water resistance.
- **Cable Connections:** Periodically check all cable connections for tightness and signs of wear or damage. Loose connections can lead to intermittent functionality.
- **Storage:** When storing your e-bike for extended periods, especially in cold conditions, it is advisable to remove the display and store it indoors in a dry, temperate environment.



Figure 5.1: The DPC18 display is designed with IPX5 water resistance, allowing it to withstand splashes and light rain during rides.

## 6. TROUBLESHOOTING

This section addresses common issues you might encounter with your DPC18 display. For more complex problems, consult a qualified e-bike technician.

Problem	Possible Cause	Solution
Display does not power on.	<ul style="list-style-type: none"> <li>◦ Loose cable connection.</li> <li>◦ E-bike battery is off or depleted.</li> <li>◦ Incompatible motor/protocol.</li> </ul>	<ul style="list-style-type: none"> <li>◦ Check all cable connections, especially the main display cable to the motor harness.</li> <li>◦ Ensure e-bike battery is charged and turned on.</li> <li>◦ Verify your motor is a BAFANG BBS series with UART protocol.</li> </ul>
No speed reading or incorrect speed.	<ul style="list-style-type: none"> <li>◦ Speed sensor issue.</li> <li>◦ Magnet misalignment.</li> </ul>	<ul style="list-style-type: none"> <li>◦ Check the speed sensor cable connection.</li> <li>◦ Ensure the magnet on the wheel spoke is properly aligned with the speed sensor on the chainstay.</li> </ul>
PAS levels not changing or no assist.	<ul style="list-style-type: none"> <li>◦ Controller communication issue.</li> <li>◦ Motor error.</li> </ul>	<ul style="list-style-type: none"> <li>◦ Check all motor and controller connections.</li> <li>◦ The display has a diagnostic tool that memorizes error messages; check for any displayed error codes and refer to your motor's manual for their meaning.</li> </ul>
USB charging port not working.	<ul style="list-style-type: none"> <li>◦ Device drawing too much power.</li> <li>◦ Cable issue.</li> </ul>	<ul style="list-style-type: none"> <li>◦ Ensure the device you are charging is compatible with 5V/0.5A output.</li> <li>◦ Try a different USB cable.</li> </ul>

## 7. PRODUCT SPECIFICATIONS

Feature	Detail
Brand	BAFANG
Model Name	DPC18 Display-UART
Color	C18
Screen Size	3.5 Inches
Display Type	Color Display
Sensor Type	Speed Sensor, Cadence Sensor
Connectivity Technology	USB (for charging)
Included Components	Display unit, Control Pad, Mounting hardware
International Protection Rating	IPX5
Mounting Type	Handlebar Mount
Material	ABS
Compatible Motors	BAFANG BBS01B, BBS02B, BBSHD (UART protocol)
USB Output	DC 5V / 0.5A
Adaptive Voltage	36V, 43V, 48V
Item Package Dimensions	4.09 x 3.94 x 3.31 inches
Package Weight	0.2 Kilograms
UPC	783779999521

## 8. WARRANTY INFORMATION

The BAFANG DPC18 Ebike Display comes with a **1-year warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or improper installation.

Please retain your proof of purchase for warranty claims. For warranty service, contact the retailer or BAFANG customer support.

## 9. CUSTOMER SUPPORT

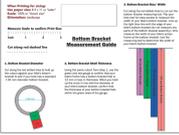
For further assistance, technical inquiries, or support regarding your BAFANG DPC18 Ebike Display, please refer to the official BAFANG website or contact their customer service department. Always provide your product model number (DPC18 Display-UART) and any relevant purchase details when seeking support.

You can often find additional resources, FAQs, and updated manuals on the manufacturer's support pages.

© 2024 BAFANG. All rights reserved.

This manual is for informational purposes only. Specifications are subject to change without notice.

### Related Documents - DPC18 Display-UART

 <p>USER MANUAL <b>BBS Series Drive System</b></p>	<p><a href="#">Bafang BBS Series Drive System User Manual</a></p> <p>Comprehensive user manual for the Bafang BBS Series Drive System, covering installation, operation, maintenance, and troubleshooting for e-bike conversion kits.</p>
 <p>Bafang Programming - Learn how to improve your riding mid-drive eBike.</p>	<p><a href="#">Bafang Mid-Drive Ebike Programming Guide: Enhance Performance</a></p> <p>Learn how to reprogram your Bafang mid-drive ebike system for improved usability and performance. This comprehensive guide covers necessary hardware, software, configuration tool instructions, and detailed explanations of all settings for Bafang BBS02 and BBSHD motors.</p>
 <p>VARSTROM X BAFANG Cycling Partners</p> <p>USER Guidance MANUAL <b>BBS Series Drive System</b></p>	<p><a href="#">Bafang BBS Series Drive System User Guidance Manual</a></p> <p>Comprehensive user manual for Bafang BBS Series mid-drive eBike conversion kits, detailing models like M215, M315, M615, controller specifications, installation tools, maintenance, and safety precautions. Features Varstrom partnership.</p>
 <p>Bafang Bottom Bracket Measurement Guide</p>	<p><a href="#">Bafang Bottom Bracket Measurement Guide for BBS02/BBSHD E-bike Mid-Drives</a></p> <p>Download and print this Bafang measurement guide to accurately determine your bicycle's bottom bracket diameter, shell thickness, and width. Essential for ensuring proper fitment of Bafang BBS02 (750W) and BBSHD (1000W) mid-drive motors. Includes printable template and instructions.</p>

	<p><a href="#">BAFANG HD Drive System Dealer Manual</a></p> <p>Comprehensive dealer manual for the BAFANG HD Drive System, covering installation, technical specifications, operation, and troubleshooting for the MM G32.1000 drive unit and DP C10.UART display.</p>
	<p><a href="#">BAFANG DPC18 Smart Display User Manual</a></p> <p>Comprehensive user manual for the BAFANG DPC18 Smart Display, covering operation, settings, technical specifications, and error codes for e-bike systems.</p>