B06 Display Instructions



Version information

versi	Reviser	Date of	Modifications	remark
on		revision		
V1.1	Mohauc	2023.8.21	Added P4 (voltage setting) menu and	
	h		applicable protocol description; Modify	
			wheel diameter and speed limit setting	
			range; Added hot-swap operation alerts.	
V1.2	Wen	2023.8.29	Added auto-shutdown menu description	
	Yao			
V1.3	Wen	2023.9.1	Adjust the menu order and increase the	
	Yao		number of magnets menu description	
V1.4	Wen	2023.10.25	Added P7 factory reset menu description	
	Yao			
V1.5	Wen	2023.10.28	Added fault descriptions for LD2, KM5S, and	
	Yao		BF	

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Note:

1. Due to the upgrade of the company's products, the display content of the product you get may be different from that in the manual, but it will not affect your normal use.

2. Do not plug and unplug with electricity, plugging and unplugging with electricity may damage the electronic control accessories.

Product Introduction

1. Name

Smart Display Controller

2. Product model

B06

3. Product appearance



	I With H	www.huiye.com UIYE, Connect to a Smarter Future
806		
17mm 45mm		
	l≪26mm⊷l	48mm
General Parameters	I⇔26mm-⊫I	26*45*48 (mm)
General Parameters	Length*Width*Height	26*45*48 (mm) 17*34 (mm)
General Parameters Dimensions	Length*Width*Height Screen Size Holder Diameter	26*45*48 (mm) 17*34 (mm) 22.2 (mm)
General Parameters Dimensions	Length*Width*Height Screen Size Holder Diameter Type	26*45*48 (mm) 17*34 (mm) 22.2 (mm) M5 Waterproof Connector
General Parameters Dimensions Connector	Length*Width*Height Screen Size Holder Diameter Type Length	26*45*48 (mm) 17*34 (mm) 22.2 (mm) M5 Waterproof Connector 20 cm
General Parameters Dimensions Connector	Length*Width*Height Screen Size Holder Diameter Type Length Voltage	26*45*48 (mm) 17*34 (mm) 22.2 (mm) M5 Waterproof Connector 20 cm 12V/24V/36V/48V/60V
General Parameters Dimensions Connector	Length*Width*Height Screen Size Holder Diameter Type Length Voltage Working Temperature	26*45*48 (mm) 17*34 (mm) 22.2 (mm) M5 Waterproof Connector 20 cm 12V/24V/36V/48V/60V -20 °C - +70 °C
General Parameters Dimensions Connector General Feature	Length*Width*Height Screen Size Holder Diameter Type Length Voltage Working Temperature Ingress Protection Rating	26*45*48 (mm) 17*34 (mm) 22.2 (mm) M5 Waterproof Connector 20 cm 12V/24V/36V/48V/60V -20 °C - +70 °C IP67
General Parameters Dimensions Connector General Feature	Length*Width*Height Screen Size Holder Diameter Type Length Voltage Working Temperature Ingress Protection Rating Weight	26*45*48 (mm) 17*34 (mm) 22.2 (mm) M5 Waterproof Connector 20 cm 12V/24V/36V/48V/60V -20 °C - +70 °C IP67 28g
General Parameters Dimensions Connector General Feature	Length*Width*Height Screen Size Holder Diameter Type Length Voltage Working Temperature Ingress Protection Rating Weight Communication Protocol	26*45*48 (mm) 17*34 (mm) 22.2 (mm) M5 Waterproof Connector 20 cm 12V/24V/36V/48V/60V -20 °C - +70 °C IP67 28g UART/CAN
General Parameters Dimensions Connector General Feature Other Feature	Length*Width*Height Screen Size Holder Diameter Type Length Voltage Working Temperature Ingress Protection Rating Weight Communication Protocol Bluetooth	26*45*48 (mm) 17*34 (mm) 22.2 (mm) M5 Waterproof Connector 20 cm 12V/24V/36V/48V/60V -20 °C - +70 °C IP67 28g UART/CAN 5.2 + BLE (Optional)

Display Items	Parameters Setup
Current Speed	Gear setting
	Unit Switch
Error Code	Speed limit
Battery Capacity	Wheel Diameter
Power sided Shoving	Battery Voltage Switch
Power-aided Shoving	Sleep Mode Timing
Light	Data Reset
Bluetooth	Password Setting

4. The main interface is displayed



① Maintenance Reminder: Displays the maintenance reminder flag.

② Headlight display: shows the headlight on/off status, and displays the logo when the system headlight is on.

- ③ Power Prompt: Prompts real-time power level.
- ④ Real-time speed display: Displays the real-time speed value.
- (5) Bluetooth icon: Bluetooth on/off, status display, display logo after successfully connecting to the meter Bluetooth.
 - 6 Boost Icon: The boost icon is displayed.

5. Button definition

The B06U meter has 3 buttons. Including "power on and off key", め "plus key

+", "minus key -". The key definitions are shown in the figure below.



6. Routine operations

① Power on/off

After long press the "power on and off button", the instrument will work on the power on, and^o in the power on state, long press the "power on and off button"^o to power off the system.

Headlight switch

Turn on the light: Press and hold the "+" button when the light is off, the headlight logo on the screen will brighten, and the controller will be notified to turn on the light.

Turn off the lights: Press and hold the "+" button when the lights are on, the screen headlight logo will not disappear, but will be dimmed, and the controller will be notified to turn off the lights at the same time.

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③ Boost mode

Press and hold the "-" button when the car body is stationary, and the dynamic booster logo will be displayed, indicating that it will enter the booster, release the "-" button, and exit the booster mode.

In the push-up mode, the booster logo is displayed dynamically, and the vehicle speed is less than 6km/h, and the push-up state stops when the button "-" is released.

④ Unit settings

Double-click the power button to enter the settings, "plus and minus buttons" to switch to select the P1 unit menu, short press the power to enter the unit menu, you can switch U1, U2. U1 is metric and U2 is imperial. Short press the power button to select the settings and return to the previous menu, and then doubleclick the power button to return to the main interface

⑤ Auto-shutdown settings

Double-click the power button to enter the settings, "plus or minus button" to switch to select P2 auto-shutdown menu, short press the power to enter the auto-shutdown menu, the default time is 5min, setThe option is adjustable from 0 to 10, and when set to 0, it means that it will not automatically shut down. Short press the power button to select the settings and return to the previous menu, and then double-click the power button to return to the main interface.

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6 Speed limit settings

Double-click the power button to enter the setting, "plus and minus buttons" to switch to select the P3 speed limit menu, short press the power to enter the speed limit menu, the speed limit setting range is 0-99. Short press the power button to select the settings and return to the previous menu, and then double-click the power button to return to the main interface

⑦ Wheel diameter setting

Double-click the power button to enter the setting, "plus and minus key" to switch to select the P4 wheel diameter menu, short press the power to enter the wheel diameter menu, the wheel diameter setting range is 0-30. Short press the power supply to select the settings and return to the previous menu, and then double-click the power source button to return to the main interface

⑧ Number of magnets set

Double-click the power button to enter the settings, "plus and minus buttons" to switch to select the P5 voltage menu, short press the power supply to enter the magnet number menu, and the setting options are 1 or 6. Short press the power button to select the settings and return to the previous menu, and then double-click the power button to return to the main interface.

9 Voltage value setting

Double-click the power button to enter the settings, "plus and minus keys" to switch to select the P6 voltage menu, short press the power supply to enter the voltage menu, the voltage defaults to 48v, settingsThe options are 24V-36V-48V-52V-60V. Short press the power button to select the settings and return to the previous menu, and then double-click the power button to return to the main interface.

10 Factory reset

Double-click the power button to enter the settings, "plus and minus buttons" to switch to select P7 factory reset menu, short press the power to enter the factory reset menu, select 01 short press the power button to restore factory settings, all parameters are restored to default, select 00 to exit the menu, no factory reset.

Note: The voltage menu is only applicable to Li-Ion No. 2, KM5S, KDS protocol, and Bafang protocol does not support voltage setting

7. Fault codes

Lithium battery No. 2 protocol fault code				
serial	Fault	Display the	remark	
number	information	code		
1	Hall failure	Error 08		
	status			
2	Turnaround	Error 05		
	failure status			
3	Controller fault	Error 16		
	status			
4	Undervoltage	Error 06		
	protection			
	status			
5	The motor is out	Error 09		
	of phase			
6	Faulty brake	Error 02		
	handlebar			
7	The controller	Error 29	Unable to receive data from the meter	
	communication			
	is faulty			
8	Instrument	Error 30	Unable to receive data from the controller	
	communication			
	failure			

KM5S fault code			
serial	Fault	Display the	remark
number	information	code	
1	Undervoltage	Error 06	
	protection		
	status		
2	The current is	Error 12	
	abnormal		
3	Handlebar	Error 05	
	abnormality		
4	The motor is	Error 09	
	out of phase		
5	Motor Hall	Error 08	
	abnormality		
6	Abnormal	Error 17	
	braking		
7	Instrument	Error 30	Unable to receive data from the controller

communication		
failure		

BF Fault Code				
serial	Number of	Error code	meaning	
number	states			
	occupy			
1	0X01	Not shown	Normal state	
2	0X03	Not shown	Braked	
3	0X04	Error 04	The signal level of the controller power-on	
			detection turnbar is greater than the start-	
			up level	
4	0X05	Error 05	The knob signal is shorted to the knob	
			GND, the knob signal is shorted to the	
			knob +5V, and the knob GND is broken	
5	0X06	Not shown	The battery voltage is lower than the	
			controller's low-voltage protection	
			threshold	
6	0X07	Error 07	The battery voltage is higher than the	
			controller's low-voltage protection	
			threshold	
7	0X08	Error 08	The motor Hall signal is abnormal	
8	0X09	Error 09	The phase line of the motor is short-	
			circuited or open-circuited	
9	0X10	Error 10	The temperature of the motor reaches the	
			protection threshold	
10	0X11	Error 11	The motor temperature sensor is abnormal	
11	0X12	Error 12	The current sensor is abnormal	
12	0X13	Not shown	The temperature sensor inside the battery	
			is abnormal	
13	0X14	Error 14	The controller temperature reaches the	
			protection threshold	
14	0X15	Error 15	The temperature sensor in the controller is	
			faulty	
15	0X21	Error 21	The internal & external speed sensor of the	
			battery is abnormal	
16	0X22	Not	The controller is unable to receive the	
		displayed (-	battery pack BMS data	
		-shown		
		when		
		reading		

		battery	
		information).	
17	0X23	Not shown	The headlights are abnormal
18	0X24	Not shown	The headlight sensor is abnormal
19	0X25	Error 25	The torque signal of the torque sensor is
			abnormal
20	0X26	Error 26	The torque sensor has an abnormal speed
			signal
21	0X30	Error 30	The meter does not receive controller data

FCC Caution.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.