C300S Product Specifications

Contents

1. About the User Manual

Dear User, To ensure optimal operation of your electric vehicle, please carefully review the C300S instrument manual before use. We will guide you through every step of the instrument's operation in the clearest possible language—from hardware installation and setup to routine usage. This manual also addresses potential issues and troubleshooting steps to help you resolve any confusion or obstacles that may arise.

2. External Dimensions

2.1 Primary Materials and Colors

The C300S product utilizes black ABS material, with the bracket manufactured from nylon. The housing material permits normal operation within a temperature range of -20℃ to 60℃ and ensures excellent mechanical properties.
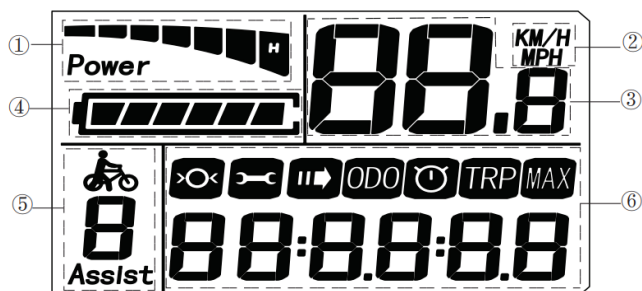
Dimension Drawing (Unit: mm)
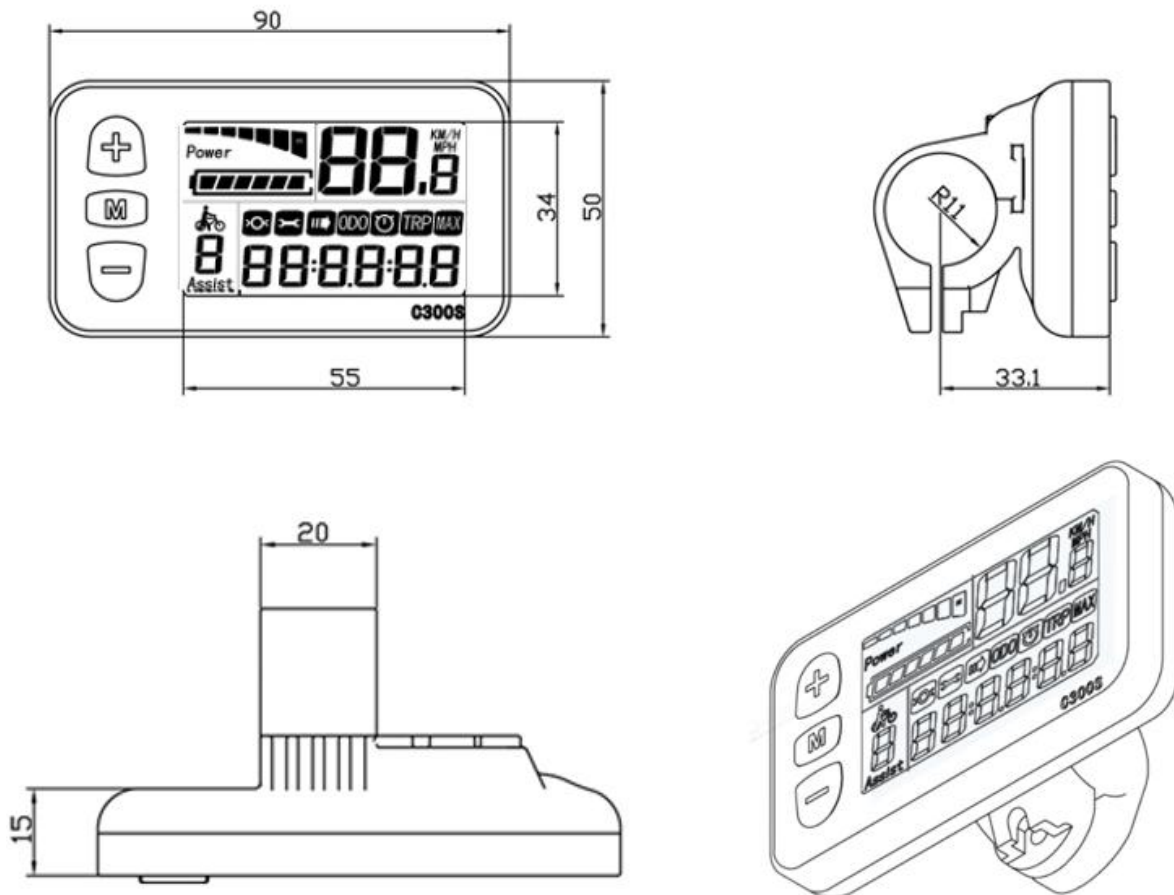
2.2 **Button Definitions**

The C300S instrument features three buttons: "M", +, and -. The M key serves as the mode/power button.
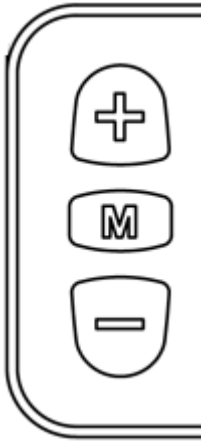
3. Function Overview

The C300S offers multiple display modes to meet your riding needs. The

C300S displays the following information:

3.1 Current display:

Displays the current of the current controller, with each division representing 2A.

3.2 Kilometer display：

The unit of measurement for the current speed is displayed in kilometers or miles, depending on the customer's settings.

3.3 Speed Display:

Display the current speed of the electric vehicle in kilometers per hour.

3.4 Battery Level Display:

The display indicates the current remaining battery level. When the battery level is critically low, it will flash as a warning.

3.5 Gear Assist Display:

◆ 🚲:Press and hold the DOWN button for 1.5 seconds to illuminate the 6KM icon.

◆ Assist:Gear display, deError range: 0-5th gear.

3.6 Ride Information Display (Press M to show items):

◆ Wheel diameter display: The current wheel diameter information is displayed in the SET3 settings interface.

◆ Error code display: During system malfunctions, icons and codes will flash at a frequency of 1Hz.

◆ Cycle Display: Automatically cycles through other display information and

cycles through automatically upon startup.

◆ Total Mileage Display: Shows the total distance traveled on the current ride.

◆ Ride Duration Display: Shows the duration information for a single user ride.

◆ Single Trip Distance: Displays the distance information for a single ride taken by the user.

◆ Maximum Speed: When displayed, indicates that the current speed is the maximum speed.

3.7 **Backlight：**

While the device is powered on, press and hold the UP button for 2 seconds to activate the instrument backlight and turn on the headlights. Press and hold the UP button again for 2 seconds to turn them off.
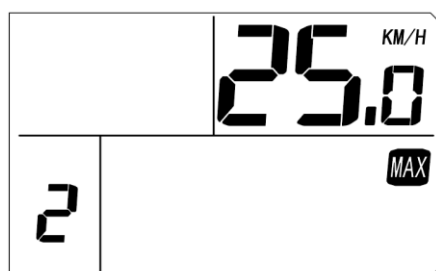
4. Overview of General Settings

Press and hold the UP and DOWN keys simultaneously for 2 seconds to enter the settings interface. Press the M key to switch between options. Use the UP and DOWN keys to select parameters. Press both UP and DOWN keys simultaneously to exit.
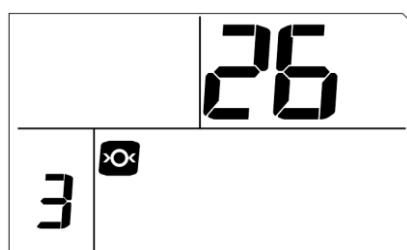
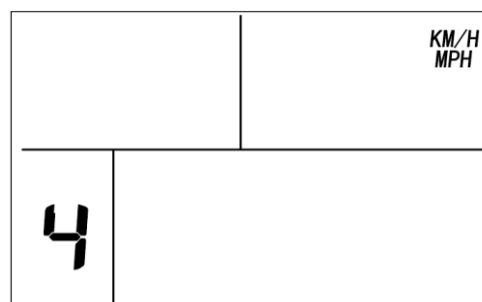4.1 Press the DOWN button to reset the single-trip mileage.
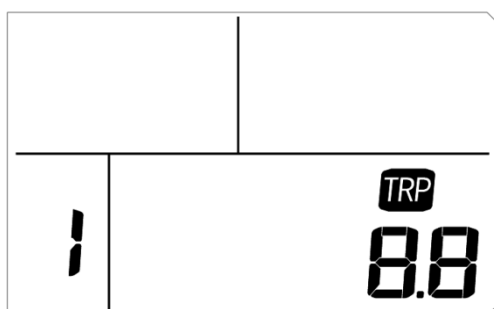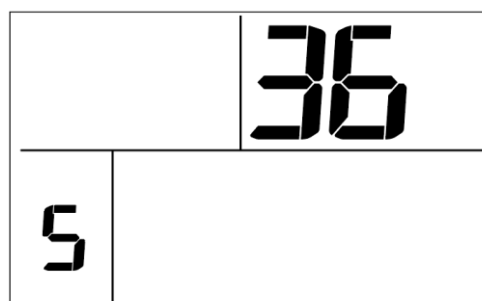
4.2 Maximum Speed Display
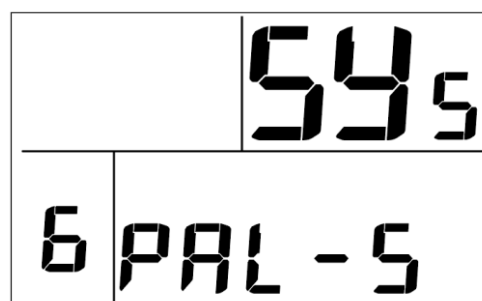
4.3 Wheel Diameter Setting

4.4 Unit selection (km/h or mph)

4.5 oltage Setting (36V/48V)
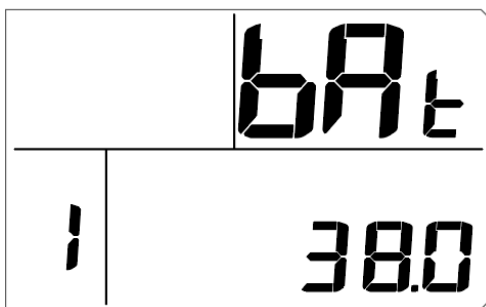
4.6 Overall Gear Setting

※**When the electric vehicle remains inactive for more than 5 minutes, the system will automatically enter sleep mode.**
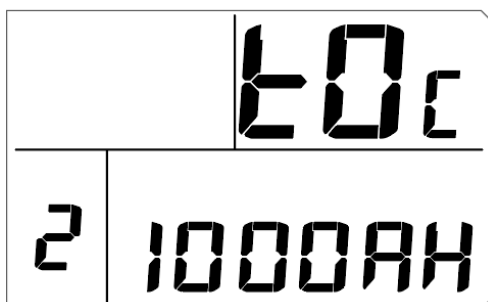
5. Battery Information Display

In the standard settings interface, press and hold the M and DOWN keys simultaneously for 10 seconds to enter the battery information display screen. Press the M key to switch between displays. Press and hold the UP and DOWN keys simultaneously to exit.

5.1 Battery voltage

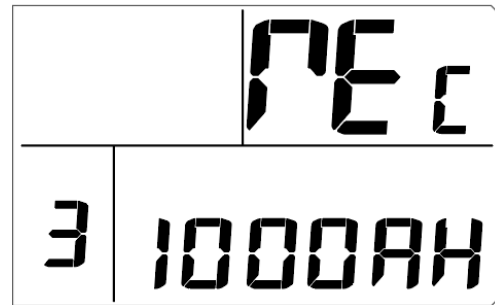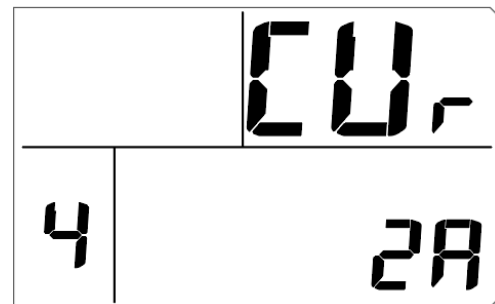**bAt**
1   38.0

5.2 Total battery capacity

tOc
2 1000AH

5.3 Remaining battery capacity

rEc
3 1000AH

5.4 Battery current

CUr
4   2A

5.5 Battery Health

SOH
5   100

5.6 Battery SOC

SOc
6   100

5.7 Battery cycle count

bigstone specification of C300S display   V2.5
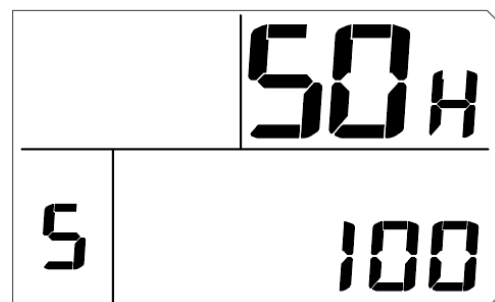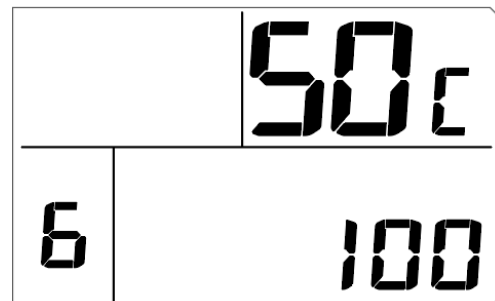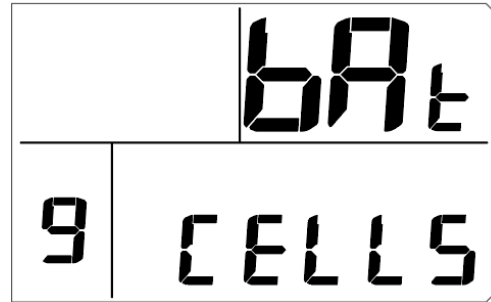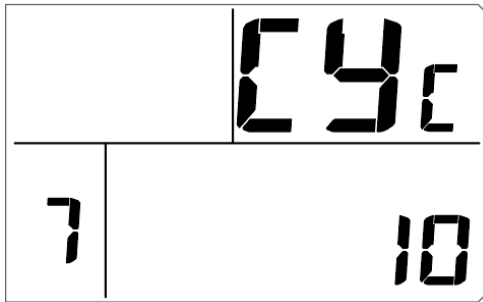
5.8 Battery Temperature

5.9 Battery Cell Voltage Display Interface

Press and hold the M and DOWN keys simultaneously for 2 seconds on the SET9 cell voltage interface to enter the individual cell voltage display screen. Press the M key to toggle between cells. Press and hold the UP and DOWN keys simultaneously to exit.

6. Error Code Definition Table

Instrument error display corresponds to the defined Error:

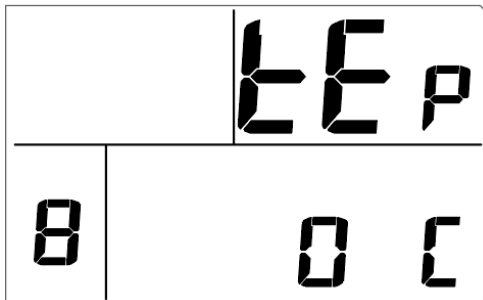| Error code	Definition
01	Controller Phase Overcurrent Error
02	Controller Busbar Overcurrent Error
03	Controller HALL Sensor Error
04	Brake Error, Throttle Error
05	Controller Temperature Error
06	Motor Temperature Error
08	Controller Communication Error
09	Controller Over voltage/Under voltage
30	Instrument Communication Error
31-50The error code indicates a malfunction according to the new European standard.	
31	MCU Error
36	Torque Voltage Error
37	Brake Error
38	Temperature Sensor Error
40	Current Feedback Circuit Error
41	Drive Voltage Error
42	Current Abnormality
43	Motor Phase Loss Error

50	Torque Voltage Detection Circuit Abnormality

7. 线序定义

Standard Wire Sequence	Line color	Function
1	Red	Battery positive terminal
2	Blue	Electric lock
3	Black	Battery negative terminal
4	Green	CH
5	Yellow	CL

8. Frequently Asked Questions

Q: Why won't it turn on?

A: Check whether the connector between the instrument harness and the controller is securely connected.

Q: How should I handle fault codes displayed on the instrument panel?

A: First, identify the corresponding issue based on the displayed error code. If you cannot resolve it yourself, promptly take the vehicle to an electric vehicle repair shop for service.

bigstone   **specification of C300S display**   **V2.5**

9. Warranty Information and Exclusions

一、Warranty Information:

   1、For any malfunctions arising from product quality issues under normal usage conditions, our company will provide limited warranty coverage within the warranty period.

   2、The warranty period for the product shall be 18 months from the date of purchase.

二、Warranty Exclusions:

   The following situations are not covered under warranty:

   1. Unauthorized disassembly or modification of the device.

   2. Malfunctions or damage resulting from misuse or improper

installation/commissioning by the user or a third party.

   3. Scratches or damage to the instrument's casing after leaving the factory.

   4. Damage to instrument cables, including scratches or breaks.

   5. ilures or damage caused by natural disasters (e.g., fire, earthquake, lightning strike).

   6. Products beyond the warranty period.