



## C600-LCD Instructions



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## **About the User Manual**

Dear users,

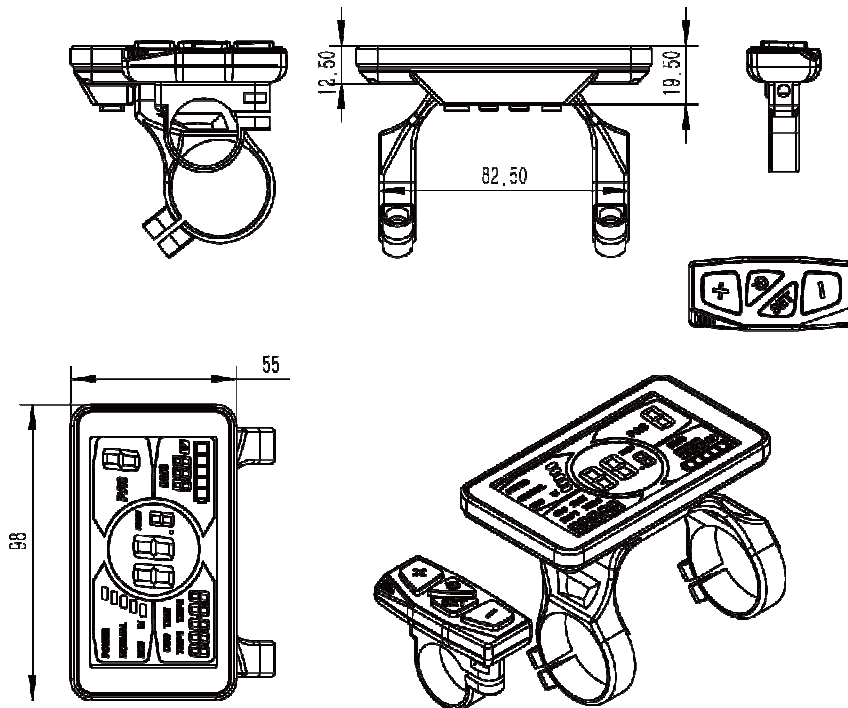
To ensure better performance of your e-bike, please read through the Equalizer C600 product introduction carefully before using it. All details are covered in this manual ( including hardware installation, settings and normal operations ) for use of the display.

## **Outlook and Size**


### **Material and Color**

Equalizer C600 products are made of black ABS material and the bracket is made of nylon material. Within the temperature of 0 to 100 F, the shell material will have normal and good mechanical performance.

Dimension figure (unit: mm)



## Button Definition

C600 has four buttons, including **ON/OFF**、**SET**、**UP** and **DOWN**.  
“ON/OFF” names to “

Technical drawings of the C600 device focusing on button details. The top row shows a side view of the device with a ring and a top view of the ring with dimensions 11 (width) and 10 (height). The bottom row shows a perspective view of the device with a ring and a front view of the device with dimensions 24 (width) and 55 (height). The front view shows the four buttons: ON/OFF, SET, UP (+), and DOWN (-). A radius dimension R11.250 is also indicated.

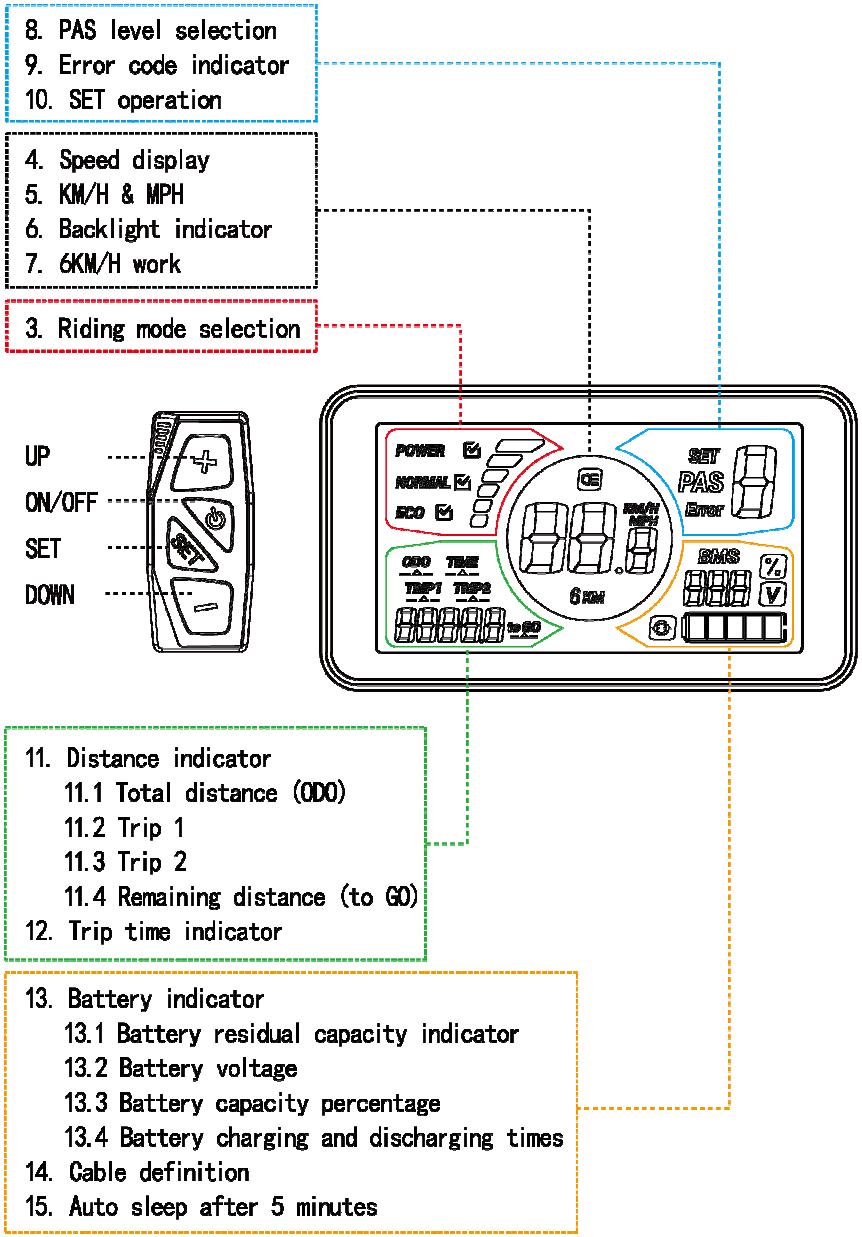
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# Function Summary

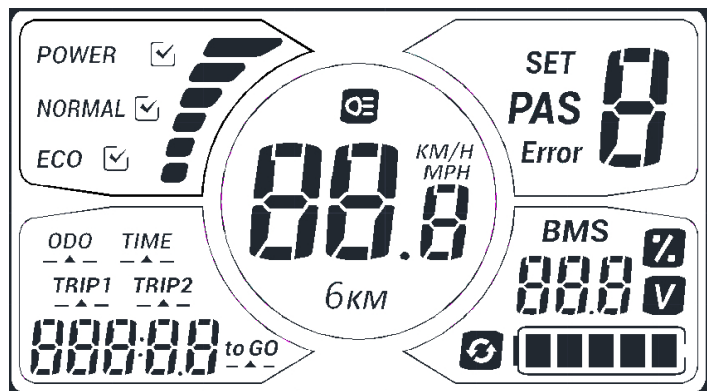
## Function Summary

Equalizer C600 provides a wide range of functions and indicators to fit the users' needs. The indicated contents are as below.

1. ON/OFF
2. Current display
3. Riding mode selection
4. Speed display
5. KM/H & MPH
6. Backlight indicator
7. 4 MPH cruise control
8. PAS level selection
9. Error code indicator
10. SET operation
11. Distance indicator
  - 11.1 Total distance (ODO)
  - 11.2 Trip 1
  - 11.3 Trip 2
12. Trip time indicator
13. Battery indicator
  - 13.1 Battery residual capacity indicator
  - 13.2 Battery voltage
14. Cable definition
15. Auto sleep after 5 minutes



### Full View Area



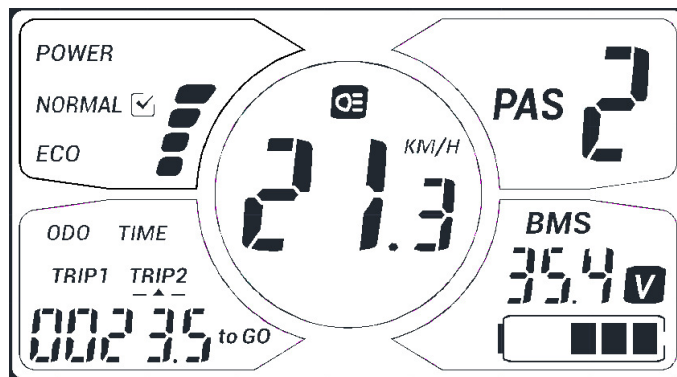
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## The Hand Throttle or Thumb Throttle

Located by your right hand by pressing down will increase your speed. This can be engaged at any time the power is on and in any PAS mode. This system is always on High.

## Normal View Area

With the display on, the default display includes riding speed, trip 2, PAS level, and battery indicator as show in the fig below. Press **SET** to switch the display information.



## Normal Operation

### 1. ON/OFF

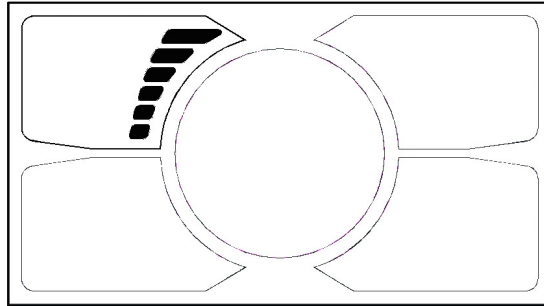
Hold **ON/OFF** to start the display. The display will provide power to the controller. Hold **ON/OFF** again to open the backlight. With display on, press **ON/OFF** for 3 seconds to turn off the power. With the display off, there is no battery power consumption. The leakage current is no more than 2  $\mu$ A.

※ The panel will go to sleep when the speed is 0 mph for 5 minutes.

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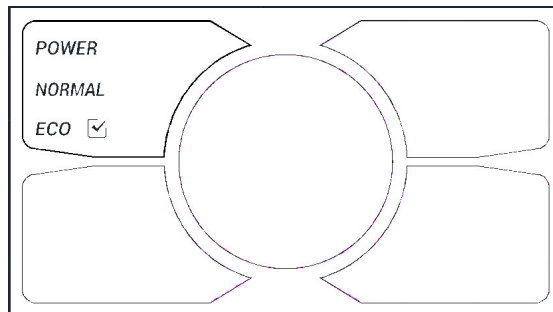
## 2. Current Display

This represents the discharging current of the current controller, each segment is 2A, six segments is  $\geq 12A$ .



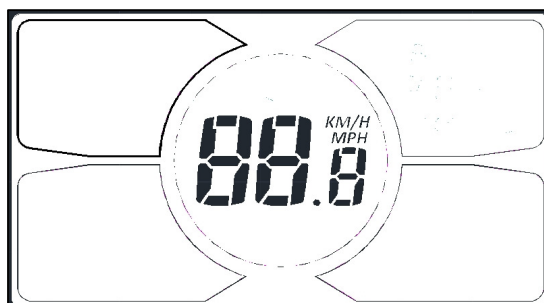
## 3. Riding Mode Selection (To Change See 10. SET Operation)

There are three modes for riding with arrow selection, including POWER , NORMAL and ECO. The default option is NORMAL.



## 4. Speed Display (To Change See 10. SET Operation)

The speed display is as below and user can select KM/H or MPH in SET4.





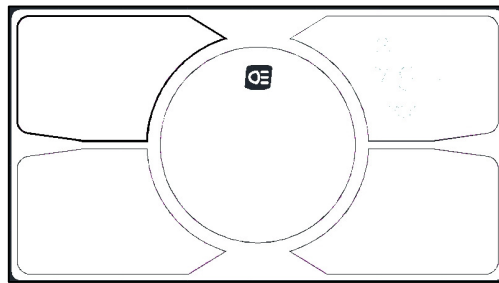
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## 5. KM/H & MPH (To Change See 10. SET Operation)

Select KM/H or MPH for the speed and mileage, display will show the currently selected units.

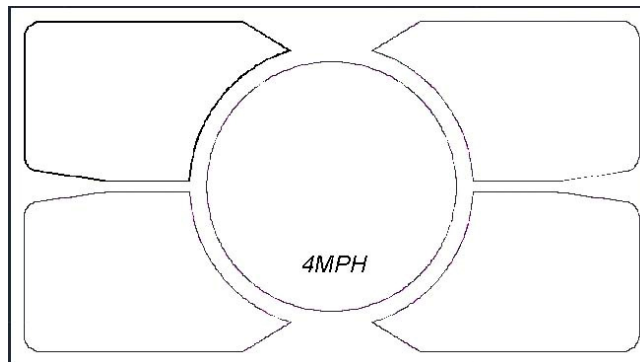
## 6. Backlight Indicator

With the power on, click the **ON/OFF** and turn on the backlight. Click it again and turn off the backlight.



## 7. 4MPH Cruise Control

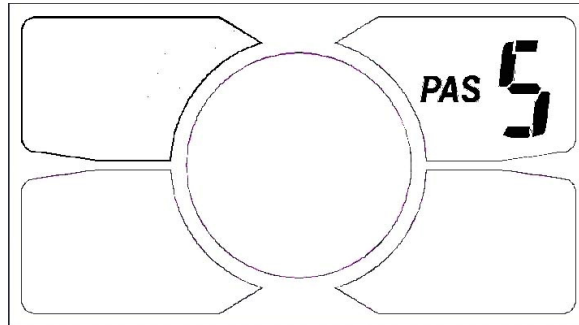
Hold the **DOWN** button for 2 seconds to get in 4mph PAS mode, and when you release the button, the 4mph PAS mode is off. The display is as below.



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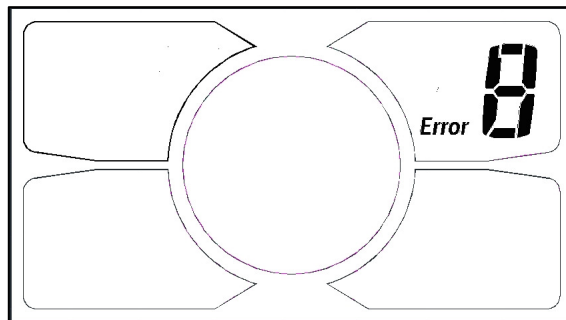
## 8. PAS Level Selection (Pedal Assist System)

Click **UP** or **DOWN** to change the stages and output power ratio, the default mode is mode 1 and it's output power range from level 1 to level 5 (mode 6 is 4mph cruise control), the default value is level 1.



## 9. Error Code Indicator

If there is something wrong with the electronic control system, the display will flash at 1 HZ and show the error code automatically. Different error code is corresponding with different fault information, please see the last page **Error code table** for details.

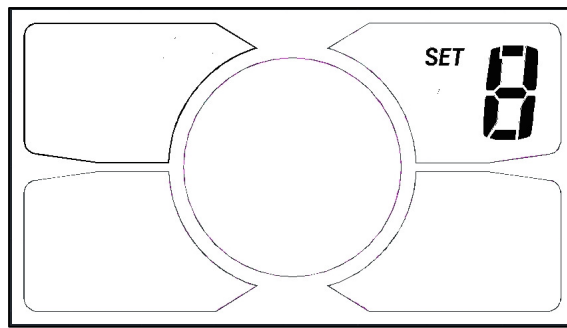


※ Display will return to normal only after the problem has been fixed. The e-bike will not run until the problem is fixed.

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## 10. SET Operation

Hold the **SET** for 2 seconds and enter into the setting interface, then Number 8 is lighting, the display will flash at 1 HZ. Click the **SET** to cycle from 0 to 4 setting interface, press **UP** or **DOWN** to select the wanted parameter, and hold the **SET** for 1 second to exit.



### 10.1. SET0: Riding mode selection

There are three modes for selection: POWER、NORMAL、ECO.

### 10.2、 SET1: Reset trip 1 distance

Click the **DOWN** to reset the trip 1, then the **TRIP1** icon will flash at 1 HZ, meanwhile the trip 1 will be cleared.

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### **10.3、 SET2: Max speed setting**

The max speed is 99.9 km/h for the default. In the SET 2 interface, user can modify the value of max speed, when the riding speed exceeds the set value, the controller will stop supplying power to the e-bike, in order to ensure the safety of rider.

※ The max speed value range from 20 km/h to 99.9 km/h. The max speed displays in speed display area. When set max speed 99.9 km/h, there is no limit for riding speed.

### **10.4、 SET3: Wheel diameter setting**

Select the accurate wheel diameter value to ensure the accuracy of display about speed and mileage.

### **10.5、 SET4: KM/H & MPH**

Select KM/H or MPH for the speed and mileage, display will be the currently selected units display.

※ Press **UP** or **DOWN** to select parameter, hold the **SET** for 1 second to save and exit.

## **11. Distance Indicator**

With the display on, press **SET** to switch the display information, in turn shows: ODO, trip 1 and trip 2.

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## 11.1 ODO

The ODO records the riding mileage, the accumulated value cannot be cleared.

## 11.2 Trip 1

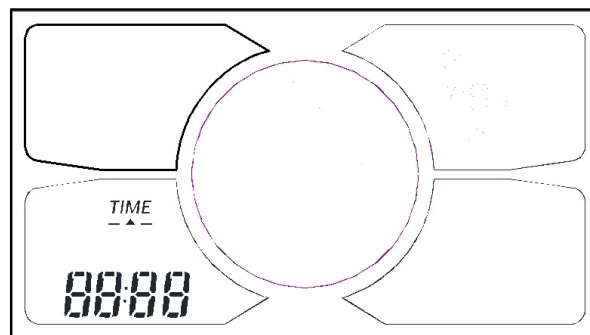
Trip 1 can be reset by hand in the **SET 1** interface. ( when the riding mileage  $\geq 300$  miles, it will be reset automatically. The value will be accumulated without resetting. )

## 11.3 Trip 2

Trip 2 displays the last driving distance for 30 seconds after turning on the display, then resets automatically and starts to record the current distance.

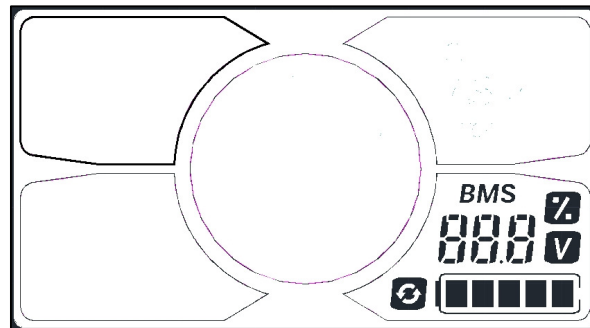
## 12. Trip Time Indicator

The riding time parameter is automatically reset after shut down.



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## 13. Battery Indicator



### 13.1 Battery residual capacity indicator

The battery scale has five segments, each segment represent 20% battery capacity. When the capacity is full, the five segments are all lit. In low battery, the battery scale will flash, it indicates that the battery is severely low and needs to be recharged immediately.



### 13.2 Battery voltage

It displays the current voltage of the battery.

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## 14. Cable Definition

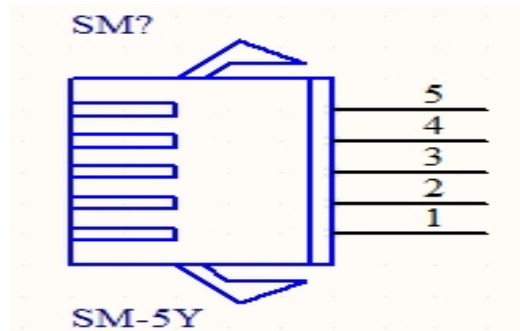
1 RED : Battery +

2 BLUE : Lock

3 BLACK : Battery-

4 GREEN:UART-RECEIVE( RXD)

5 WHITE: UART- SEND ( TXD )



## 15. Auto Sleep After 5 Minutes

When the riding speed is 0 mph for 5 minutes, the system will go to sleep automatically.

## Common Problems & Solutions

Q : The display is not able to start up?

A : Checking the connector that is between display and controller.

Q : How to deal with the error code?

A : The error code will give you an idea of what is wrong. You can try and fix the problem.

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## **Quality & Warranty**

### **Quality & Warranty :**

- 1、 This warranty covers any quality problems that occur in normal use and in the warranty period.
- 2、 The warranty time is 12 months from date of purchasing.

### **Other Items :**

The following items are not covered under this warranty.

1. Accidents or neglect.
2. Damage caused by wrong installation or operation.
3. Shell is broken.
4. Broken wires.
5. Natural disaster caused by fire, earthquake or lightning etc
6. Beyond Warranty period.



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## **Error Code Table**

The error code is corresponding with the fault definition.

Error code	definition
0	normal
1	Current error or MOS damaged
2	Throttle error(Start detection)
3	motor no phase position
4	Hall error
5	Brake error(Start detection)
6	Under voltage
7	Motor stalling
8	communication controller receiving error
9	communication display receiving error