



**苏州市昆腾电子有限公司**  
SUZHOU CITY KUNTENG ELECTRONIC CO., LTD



## 用户手册

User Manual

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**KT-LCD8YN E-Bike Special Meter**

[WWW.SZKTDZ.COM](http://WWW.SZKTDZ.COM)

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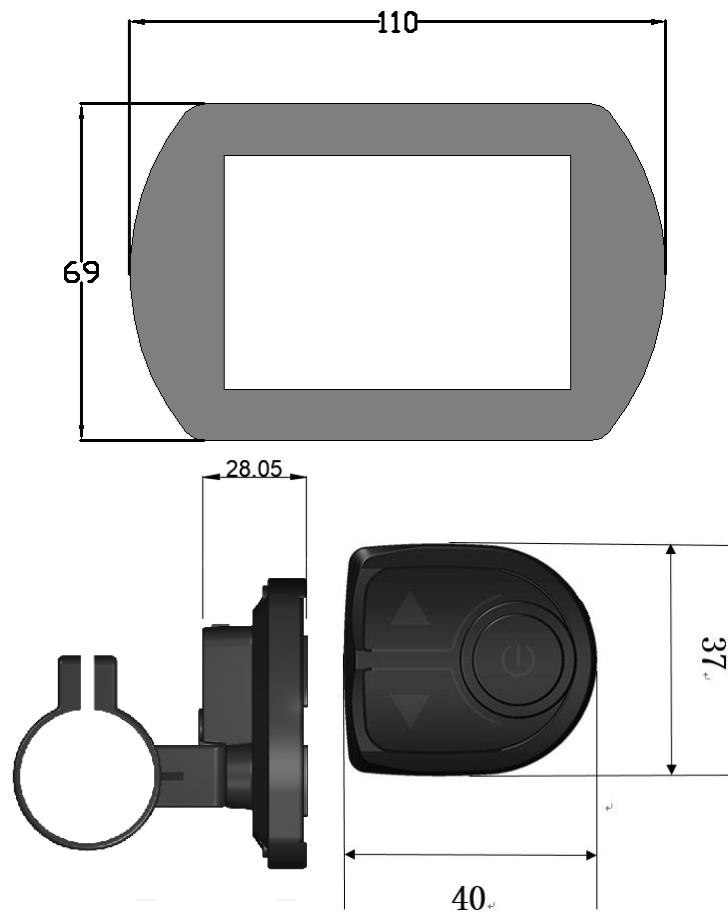
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## Preface

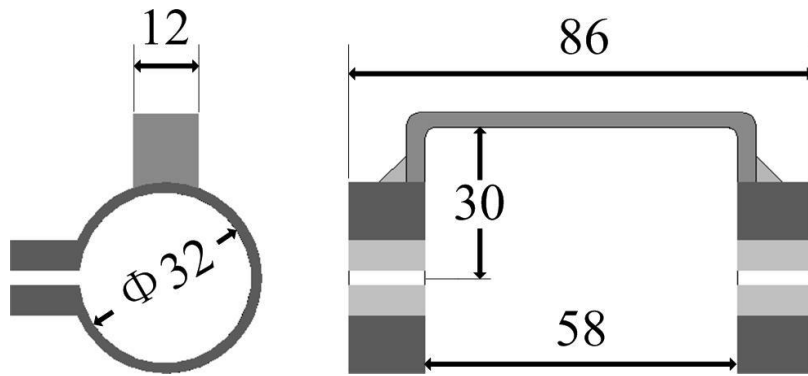
The illustrated manual will help you understand and be familiar with the meter function, guiding you on how to operate the meter, how to set the project parameters, how to achieve the best match of the three as motor, controller and meter to improve electronic control performance of the electric motor. This manual covers installation, operation, parameter setting of the meter and how to use it properly, which help you resolve the problems appeared in practical use.

## Outlook and Size

### ○ Meter Dimension



**Meter Dimension**

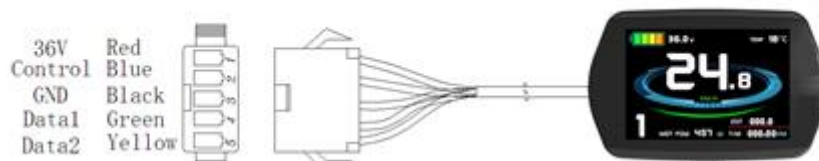


Dual Bracket Mounting Dimension

### ○ Main Material and Color

PC material is mainly used for KT-LCD8YN meter and button box housing, and the housing color is black.

### ○ Wiring Schematic



### Installation Instruction

The meter body and button box are mounted on the handlebars of the electric vehicle, adjusting perspective. In the case that the vehicle is power off, the meter connectors are in plug connection to corresponding controller connectors. Turn on the power, electric vehicle and meter will be under normal operation, the meter installation is finished. The protection film on meter display panel should be torn.

### ○ Physical installation icon



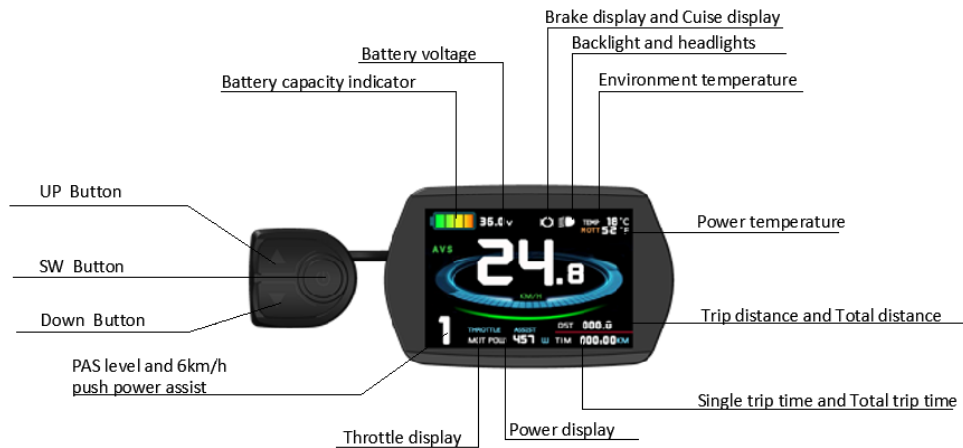
## Function Overview

KT-LCD8YN meter provide you with a variety of functions such as vehicle controls and vehicle status digitized displays to meet the trip demands.

- ◇ Trip time display (with displays of a single trip time (TIM) and total trip time (TTM));
- ◇ Trip speed display (with displays of real-time speed (KM/H or MPH) and a single maximum speed (MXS) and a single average speed (AVS));
- ◇ Trip distance display (with displays of a single trip distance (DST) and total trip distance (ODO));
- ◇ Display of turned on throttle (**THROTTLE**) ;
- ◇ Display of turned on throttle (**PASS SENSOR**)
- ◇ Power assistant ratio (or throttle) gear (**ASSIST**) switch;
- ◇ 6KM/H power assistant push (  ) function;
- ◇ Cruise function (**CRUISE**,  );
- ◇ Battery capacity indicator (  );
- ◇ Real-time battery voltage (**VOL**) display;
- ◇ Motor power (**MOTOR W**) and temperature (**MOTT °C**) display;
- ◇ Brake status display (  );
- ◇ Turn on backlighting and lights (  );
- ◇ Environment temperature (°C or °F) display;
- ◇ Data clearing;
- ◇ Fault code display;
- ◇ User parameter setting;
- ◇ 24V, 36V, 48V supply voltage can automatic identification and be compatible.

## Display Content

The display content is shown as follow.



## Button Definition

KT-LCD8YN meter adopts the structural form with part design together the main part and operating buttons.

3key on the keyboard,  for up,  for SW,  for Down

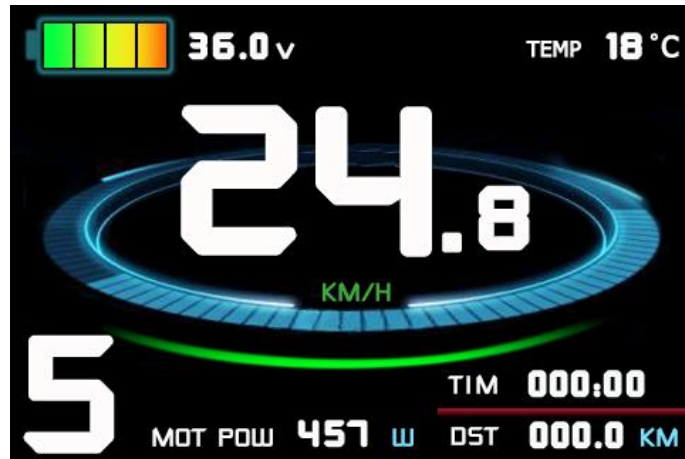
## Normal Operation

### ○ On/Off

Hold  button (SW) long, the meter is powered on and into normal operation, and it provides the controller with power supply. Under normal operating status, hold  button (SW) long, the meter is powered off, meanwhile to shutdown the power supply of controllers. **When the vehicle is stopped and without any button operation on the meter for five minutes, the meter will automatically shut down, and the power supply of the electric vehicle will be powered off.** In power off mode, the power consumption of the meter and controller is zero.

### ○ Display Interface

Hold  button (SW) long, the meter is startup to enter display 1.



Display 1

In display 1, press  button (SW) shortly to enter display 2.



Display 2

In the riding mode within 5 seconds, display 2 automatically jump to display 1



In display 2 or display 3, press  button (SW) shortly again to enter display 3.

In each display interface, if you hold  button (SW) long, the meter will be powered-off together with that of the controller.

### ○ Display of Turned on Throttle

Rotate the throttle control handle under normal operating of the meter, the display interface shows the logo of turned-on throttle, see the Figure below.



### ○ PAS Ratio (or throttle) Gear Switch

Under normal operation, hold  button (UP) or  button (DOWN) to switch the power assist ratio (or throttle) gear (ASSIST), changing motor output power. Switching range is 1-5 gear (this can also be configured according to the customer requirements), gear 1 is for the lowest power, and gear 5 is for the highest power.



At every startup, the meter will automatically restore gear (this can also be configured as required by users) when it was at last shut down. When the power assist ratio is gear 0 zero, there's no power assist function.

### ○ Power Assistant Push Function

Users can use 6KM/H power assist function when pushing vehicles. Hold 

button (**DOWN**), the meter assist function logo (  ) flashes, the vehicle drives at the speed of no more than 6km/h. Release  button (**DOWN**), the assist function will be revoked.



### ○ Cruise Function

When C7 parameter setting is 1 (see C parameter setting), the meter turns on cruise function, hold  button (**DOWN**) long to enter the cruise status when the vehicle speed is more than 7 km/h, and the cruise function logo (CRUISE) lights. Brake or hold any button to revoke cruise function.



### ○ Startup Backlights and Headlights

Hold  button (**UP**) long, the meter turns on the backlights as well as the vehicle headlights (the Controller should have headlights driving and output functions), meter backlighting and vehicle lights power logo (  ) light, hold  button (**UP**) long again to turn off backlights and vehicle headlights.



### ○ Brake status display

Under normal operation, vehicle brake, brake status indicator display (ⓘ), as shown in the figure.



### ○ Battery Capacity Indicator

The meter can automatically identify 24V, 36V, 48V battery capacities when it is supporting use with the specified controller. When the battery capacity is over 70%, the four power displays of the meter are lit, when the battery capacities drop, the four power displays are off in order, when the power capacity is less than 15%, the four power displays are totally turned off.

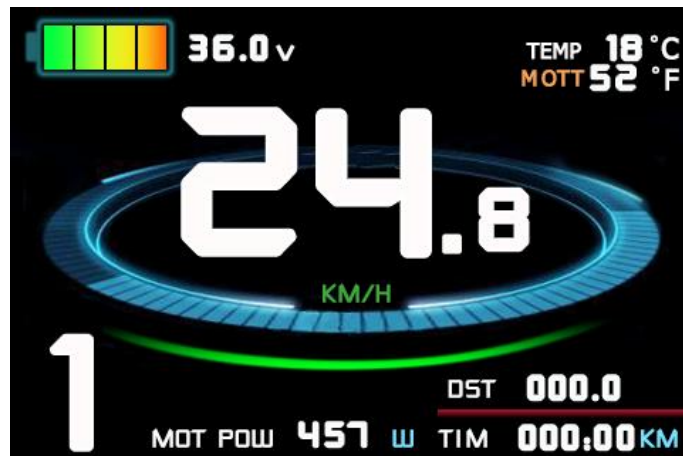
When the controller is power off due to voltage shortage, the power display frame flashes, indicating the vehicle has been in voltage shortage and waiting for shutdown currently.



Battery capacity indicator

### ○ Motor Operating Power and Temperature

Under the riding status of vehicle, the motor real time running output power can be known via the meter displays.



When C8 parameter setting is 1 (see C parameter setting), the meter turns on motor operating temperature display function.

### ○ Environment Temperature

After startup, the environment temperature for using meter will be displayed in environment temperature display column.



The temperature display value may be in deviation shortly after boot-up, and the display value will be gradually approaching the environment temperature within 10 minutes after boot-up.

#### ○ Single Data Clearing

5 seconds after the meter is powered on, at display 1, hold both the  button (**UP**) and the  button (**DOWN**) simultaneously for about 2 seconds, the single trip time (TM) and single trip distance (DST) flicker, then press  button shortly (**SW**), the record contents of both will be cleared.



Under the status of data flashing, if there were no operations on the data within 5 seconds, the meter will automatically return to display1 after 5 seconds, and the original record content will be saved.

#### ○ Automatically Prompt Interface

Error Code Display:

When the electronic control system of the electric vehicle fails, and the meter will automatically display (flicker) fault code. You can't exit the fault code display only the fault is removed.



Error Code & Definition Table:

| Error Code                               | Definition                           |
|------------------------------------------|--------------------------------------|
| <b>Motor position sensor fault!</b>      | illegal signal for hall sensor       |
| Motor or controller short circuit fault! | there is a short-circuit fault occur |
| <b>THROTTLE fault!</b>                   | illegal signal for throttle          |

Motor operating temperature alarm:

Under any interface, when the motor operating temperature exceeds the warning value, the motor operating temperature display flashes to alarm, meanwhile, the controller will offer the appropriate protection to motor.

## User Setting Project

KT-LCD8YN meter user setting project:

- ◇ General project setting
- ◇ P parameter setting
- ◇ C parameter setting
- ◇ L parameter setting

## General Project Setting

Under power off status, hold  button long (SW), the meter is turned on. It will

enter parameter interface Within 5 seconds after boot-up, by holding  button (**UP**) and  button (**DOWN**) simultaneously for about 2 seconds

User can move to any parameter by pressing  button (**UP**) and  button (**DOWN**), to enter or quit parameter setting by pressing  (**SW**)

Unter parameter setting interface, holding  (**SW**) long for about 2 seconds to quit and the value will be save

If no operation within 1 minute, the meter will return to main interface and the last value will be saved

### ○ Maximum Trip Speed

Max speed setting LIM, hold  button shortly (**SW**) when the cursor before LIM, the value flash. To setting max speed by press  button (**UP**) or  button (**DOWN**). The default value of max speed was set according to user's requirement. The motor will stop, when the speed exceeds the max speed which has been set before

|              |        |        |
|--------------|--------|--------|
| ▶ LIM:25km/h | C3: 8  | C13: 0 |
| DIM:26"      | C4: 0  | C14: 2 |
| UNT: 0       | C5: 10 | C15: 6 |
| P1: 87       | C6: 3  | L1: 0  |
| P2: 1        | C7: 0  | L2: 0  |
| P3: 1        | C8: 0  | L3: 1  |
| P4: 0        | C9: 0  | L4: 5  |
| P5: 12       | C10: N |        |
| C1: 2        | C11: 0 |        |
| C2: 0        | C12: 4 |        |

After finishing the maximum riding speed setting, press  button shortly (**SW**) , to return to parameter setting interface.

### ○ Wheel Diameter

Under parameter setting interface, move cursor to DIM and press  button shortly (SW), the value flashes. Press  button (UP) or  button (DOWN) to choose the corresponding wheel diameter specification to a selected vehicle. The selection range of wheel diameter specifications are 16 species such as 5 ,6 ,8 ,10 ,12 ,14 ,16 ,18 ,20 ,23 ,24 , 26 ,27.5 ,700c , 28 and 29 inches.

|            |        |        |
|------------|--------|--------|
| LIM:25km/h | C3: 8  | C13: 0 |
| ► DIM:26"  | C4: 0  | C14: 2 |
| UNT: 0     | C5: 10 | C15: 6 |
| P1: 87     | C6: 3  | L1: 0  |
| P2: 1      | C7: 0  | L2: 0  |
| P3: 1      | C8: 0  | L3: 1  |
| P4: 0      | C9: 0  | L4: 5  |
| P5: 12     | C10: N |        |
| C1: 2      | C11: 0 |        |
| C2: 0      | C12: 4 |        |

After finishing the wheel diameter setting, press  button (SW) shortly to return to parameter setting interface

#### ○ Metric and Imperial Units

Under parameter setting interface, move cursor to UNT and press  button shortly (SW), the value flashes. Press  button (UP) or  button (DOWN) shortly to choose within the range of 0-3.

|            |        |        |
|------------|--------|--------|
| LIM:25km/h | C3: 8  | C13: 0 |
| DIM:26"    | C4: 0  | C14: 2 |
| ► UNT: 0   | C5: 10 | C15: 6 |
| P1: 87     | C6: 3  | L1: 0  |
| P2: 1      | C7: 0  | L2: 0  |
| P3: 1      | C8: 0  | L3: 1  |
| P4: 0      | C9: 0  | L4: 5  |
| P5: 12     | C10: N |        |
| C1: 2      | C11: 0 |        |
| C2: 0      | C12: 4 |        |

Definition Table of Metric/Imperial Units:

| Code | Speed | Mileage | Ambient temperature        |
|------|-------|---------|----------------------------|
| 0    | Km/h  | Km      | °C(Centigrade temperature) |
| 1    | MPH   | Mil     | °C(Centigrade temperature) |
| 2    | Km/h  | Km      | °F (Fahrenheit)            |
| 3    | MPH   | Mil     | °F (Fahrenheit)            |

After finishing the metric/imperial units setting, press  button shortly (**SW**) to return to parameter setting interface

## P Parameter Setting

### ○ P1 Motor Characteristic Parameter Setting

P1 is motor characteristic parameter setting,  $P1 = \text{motor gear reduction ratio} \times \text{number of motor magnet pieces}$ , just rounding if there's any decimal.

Under parameter setting interface, move cursor to P1 and press  button shortly (**SW**), the value flashes. press button (**DOWN**)  button (**UP**) or  button (**DOWN**) for selection within the range of 1-255.

|            |        |        |
|------------|--------|--------|
| LIM:25km/h | C3: 8  | C13: 0 |
| DIM:26"    | C4: 0  | C14: 2 |
| UNT: 0     | C5: 10 | C15: 6 |
| ► P1: 87   | C6: 3  | L1: 0  |
| P2: 1      | C7: 0  | L2: 0  |
| P3: 1      | C8: 0  | L3: 1  |
| P4: 0      | C9: 0  | L4: 5  |
| P5: 12     | C10: N |        |
| C1: 2      | C11: 0 |        |
| C2: 0      | C12: 4 |        |

P1 parameter setting interface

After finishing P1 parameter setting, press  button to return to parameter setting interface.

### ○ P2 Wheel Speed Pulse Signal Setting

Under parameter setting interface, move cursor to P2 and press  button shortly (**SW**), the value flashes.

|            |        |        |
|------------|--------|--------|
| LIM:25km/h | C3: 8  | C13: 0 |
| DIM:26"    | C4: 0  | C14: 2 |
| UNT: 0     | C5: 10 | C15: 6 |
| P1: 87     | C6: 3  | L1: 0  |
| ► P2: 1    | C7: 0  | L2: 0  |
| P3: 1      | C8: 0  | L3: 1  |
| P4: 0      | C9: 0  | L4: 5  |
| P5: 12     | C10: N |        |
| C1: 2      | C11: 0 |        |
| C2: 0      | C12: 4 |        |

P2 parameter setting interface

P2 is wheel speed pulse signal setting, if wheel generated 1 pulse signal by a revolution, P2 should be set as 1. If wheel generated 6 pulse signals by a revolution, P2 should be set as 6. If users didn't configure the pulse signal system, and then P2 parameter setting can be 0. The setting range of P2 should be between 0-6, hold  button (**UP**) shortly or  button (**DOWN**) for selection.

**Under P2 parameter setting interface, if there's no button operation on the meter for more than 1 minute, and then the meter will automatically return to display 1, and the original set parameter will be saved.**

**Please Note:** when P2 parameter is set to be 0, for the built-in clutch motor, there will be the following defects, when the internal motor rotors stop or the internal rotor speed is lower than the outer rotor speed, then the speed displayed on the meter is inaccurate!

After finishing P2 parameter setting, press  button (**SW**) to return the parameter setting interface

### ○ P3 Power Assist Control Mode Setting

Under parameter setting interface, move cursor to P3 and press  button shortly (**SW**), the value flashes.

|            |        |        |
|------------|--------|--------|
| LIM:25km/h | C3: 8  | C13: 0 |
| DIM:26"    | C4: 0  | C14: 2 |
| UNT: 0     | C5: 10 | C15: 6 |
| P1: 87     | C6: 3  | L1: 0  |
| P2: 1      | C7: 0  | L2: 0  |
| ► P3: 1    | C8: 0  | L3: 1  |
| P4: 0      | C9: 0  | L4: 5  |
| P5: 12     | C10: N |        |
| C1: 2      | C11: 0 |        |
| C2: 0      | C12: 4 |        |

P3 parameter setting interface

P3 is power assist control mode setting, when P3 parameter setting is 1, power assist control mode is gear 5 of "**imitation torque control**" mode, when P3 parameter setting is 0, power assist control mode is gear 5 of "**speed control**" mode. P3 parameter needs to be determined according to the distributed function of the controller, its setting range is 0 or 1, press  button (**UP**) or  button (**DOWN**) for selection.

After finishing P3 parameter setting, press  button (**SW**) to return to the parameter setting interface

#### ○ P4 Throttle Startup Setting

Under parameter setting interface, move cursor to P4 and press  button shortly (**SW**), the value flashes.

|            |        |        |
|------------|--------|--------|
| LIM:25km/h | C3: 8  | C13: 0 |
| DIM:26"    | C4: 0  | C14: 2 |
| UNT: 0     | C5: 10 | C15: 6 |
| P1: 87     | C6: 3  | L1: 0  |
| P2: 1      | C7: 0  | L2: 0  |
| P3: 1      | C8: 0  | L3: 1  |
| ► P4: 0    | C9: 0  | L4: 5  |
| P5: 12     | C10: N |        |
| C1: 2      | C11: 0 |        |
| C2: 0      | C12: 4 |        |

P4 parameter setting interface

P4 is throttle startup setting, when P4 setting is 1, indicating the throttle is under "**non-zero startup**" mode, namely, the throttle can be effective only after startup the foot

power assist. When P4 setting is 0, indicating the throttle is under "**zero startup**" mode, the motor can be startup by the throttle directly. P4 setting range is 0 or 1, press  button (**UP**) or  button (**DOWN**) for selection.

After finishing P4 parameter setting, press  button (**SW**) to return to parameter setting interface

### ○ P5 Power Monitoring Setting

Under parameter setting interface, move cursor to P5 and press  button shortly (**SW**), the value flashes.

|            |        |        |
|------------|--------|--------|
| LIM:25km/h | C3: 8  | C13: 0 |
| DIM:26"    | C4: 0  | C14: 2 |
| UNT: 0     | C5: 10 | C15: 6 |
| P1: 87     | C6: 3  | L1: 0  |
| P2: 1      | C7: 0  | L2: 0  |
| P3: 1      | C8: 0  | L3: 1  |
| P4: 0      | C9: 0  | L4: 5  |
| ▶ P5: 12   | C10: N |        |
| C1: 2      | C11: 0 |        |
| C2: 0      | C12: 4 |        |

P5 parameter setting interface

P5 is power monitoring setting. When P5 equals to a specified parameter, the power monitoring is the "**smart power**" mode (this parameter is determined by the battery characteristics. ordinary 24V lithium is generally is 4-11. 36V lithium is between 5\_15, For 48V batteries, set the value of P5 parameter between 6 and 17; for 52V batteries, set it between 7 and 18; If batteries is 60V and above, adjust the appropriate P5 parameter according to the actual battery voltage). P5 setting ranges from 1-60. press  button (**UP**) or  button (**DOWN**) for selection.

After finishing P5 parameter setting, press  button (**SW**) to return parameter setting interface

## C Parameter Setting

### ○ C1 Power-Assist Sensor and Parameter Select Setting

Under parameter setting interface, move cursor to C1 and press  button shortly (**SW**), the value flashes.

|            |        |        |
|------------|--------|--------|
| LIM:25km/h | C3: 8  | C13: 0 |
| DIM:26"    | C4: 0  | C14: 2 |
| UNT: 0     | C5: 10 | C15: 6 |
| P1: 87     | C6: 3  | L1: 0  |
| P2: 1      | C7: 0  | L2: 0  |
| P3: 1      | C8: 0  | L3: 1  |
| P4: 0      | C9: 0  | L4: 5  |
| P5: 12     | C10: N |        |
| ► C1: 2    | C11: 0 |        |
| C2: 0      | C12: 4 |        |

C1 parameter setting interface

C1 is power-assist sensor and parameter select setting, its definition is shown in following table. C1 setting ranges between 0-7, and **C1=4 (exclusively for torque sensors)**.press  button (**UP**) or  button (**DOWN**) for selection.

C1 parameter definition table:

| KUNTENG power assist sensors | C1 value | Start Sensitivity | KUNTENG V12 power assist sensors | C1 value | Start Sensitivity |
|------------------------------|----------|-------------------|----------------------------------|----------|-------------------|
| Forward 5 Signal             | 00       | Standard          | Reverse 6 Signal                 | 05       | Standard          |
|                              | 01       | Lower             |                                  | 06       | Lower             |
|                              | 02       | Lowest            |                                  | 07       | Lowest            |
| Forward 8 Signal             | 00       | Higher            | Reverse 10 Signal                | 05       | Higher            |
|                              | 01       | Standard          |                                  | 06       | Standard          |
|                              | 02       | Lower             |                                  | 07       | Lower             |
| Forward 10 Signal            | 00       | Highest           | Reverse 12 Signal                | 05       | Highest           |
|                              | 01       | Higher            |                                  | 06       | Higher            |
|                              | 02       | Standard          |                                  | 07       | Standard          |



Forward power sensor signal waveforms



Reverse power sensor signal waveforms

After finishing C1 parameter setting, press  button (**SW**) to return to parameter setting interface

## ○ C2 Motor Phase Classification Coding Setting

Under parameter setting interface, move cursor to C2 and press  button shortly (**SW**), the value flashes.

|            |        |        |
|------------|--------|--------|
| LIM:25km/h | C3: 8  | C13: 0 |
| DIM:26"    | C4: 0  | C14: 2 |
| UNT: 0     | C5: 10 | C15: 6 |
| P1: 87     | C6: 3  | L1: 0  |
| P2: 1      | C7: 0  | L2: 0  |
| P3: 1      | C8: 0  | L3: 1  |
| P4: 0      | C9: 0  | L4: 5  |
| P5: 12     | C10: N |        |
| C1: 2      | C11: 0 |        |
| ► C2: 0    | C12: 4 |        |

C2 parameter setting interface

C2 is motor phase classification coding setting, it is served as identification parameter of different phases of the motor when using sine wave drive and the default value is 0. When C2 setting is 0, indicating that the used Quantum motor phase is an ordinary one. When the setting is a certain value, indicating a particular motor phase is used. C2 setting range is 0-1, press  button (**UP**) or  button (**DOWN**) for selection.

After finishing C2 parameter setting, press  button (**SW**) to return to parameter setting interface

### ○ C3 Power Assist Ratio Gear Initialization Setting

Under parameter setting interface, move cursor to C3 and press  button shortly (**SW**), the value flashes

|            |         |        |
|------------|---------|--------|
| LIM:25km/h | ► C3: 8 | C13: 0 |
| DIM:26"    | C4: 0   | C14: 2 |
| UNT: 0     | C5: 10  | C15: 6 |
| P1: 87     | C6: 3   | L1: 0  |
| P2: 1      | C7: 0   | L2: 0  |
| P3: 1      | C8: 0   | L3: 1  |
| P4: 0      | C9: 0   | L4: 5  |
| P5: 12     | C10: N  |        |
| C1: 2      | C11: 0  |        |
| C2: 0      | C12: 4  |        |

## C3 parameter setting interface

Press  button (**UP**) or  button (**DOWN**) for selection C3 parameter values.

The factory default is 8.

C3 parameter values:

| C3  | Parameter value meaning                                              |
|-----|----------------------------------------------------------------------|
| 0   | The meter is powered on and the power assist ratio is at gear 0.     |
| 1   | The meter is powered on and the power assist ratio is at gear 1.     |
| 2   | The meter is powered on and the power assist ratio is at gear 2.     |
| 3   | The meter is powered on and the power assist ratio is at gear 3.     |
| 4   | The meter is powered on and the power assist ratio is at gear 4.     |
| 5   | The meter is powered on and the power assist ratio is at gear 5.     |
| 6&7 | Retain                                                               |
| 8   | Each startup will automatically restore the gear shutdown last time. |

After finishing C3 parameter setting, press  button (**SW**) to return parameter setting interface

#### ○ C4 Throttle Function Setting

Under parameter setting interface, move cursor to C4 and press  button shortly (**SW**), the value

|            |        |        |
|------------|--------|--------|
| LIM:25km/h | C3: 8  | C13: 0 |
| DIM:26"    | ►C4: 0 | C14: 2 |
| UNT: 0     | C5: 10 | C15: 6 |
| P1: 87     | C6: 3  | L1: 0  |
| P2: 1      | C7: 0  | L2: 0  |
| P3: 1      | C8: 0  | L3: 1  |
| P4: 0      | C9: 0  | L4: 5  |
| P5: 12     | C10: N |        |
| C1: 2      | C11: 0 |        |
| C2: 0      | C12: 4 |        |

flashes

## C4 parameter setting interface

C4 is throttle function setting, the setting range is 0-4, press  button (**UP**) or



button (**DOWN**) for selection.

C4 parameter definition table:

| C4 value | P4=0                                                            | P4=1                                                                                                                                                                |
|----------|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0        | zero startup throttle                                           | Non-zero startup throttle                                                                                                                                           |
| 1        | Zero startup, throttle speed limit is 6KM/H                     | Before power assist, the throttle speed limit is 6KM/H, after power assist, throttle is full speed.                                                                 |
| 2        | Zero startup, throttle speed limit is specified                 | Non-zero startup, throttle is specified speed limit.                                                                                                                |
| 3        | Zero startup, Zero gear effectively                             | Before power assist, the throttle speed limit is 6KM/h, after power assist, throttle is full speed.<br>Stop power assist, return the throttle speed limit is 6KM/H. |
| 4        | Throttle gears is distinguished according to the display meter. | Non-zero startup throttle, Throttle gears is distinguished according to the display meter.                                                                          |
| 5        | Retain                                                          | Retain                                                                                                                                                              |

When C4 = 2 is confirmed, "specified speed limit value of throttle " flashes, press



(UP) button or (DOWN) button for short to make selection, and the default value is 20.

When C4 = 4 is confirmed, the "percentage value of the first gear speed accounts for its full speed" of the power assist gear flashes, press (UP) button or (DOWN) button for short to make selection, and the default value is 50%. The percentage values of other gears divide automatically in equal.

After finishing C4 parameter setting, press button (**SW**) to return to parameter setting interface

#### ○ C5 Controller Maximum Current Adjustment Setting

Under parameter setting interface, move cursor to C5 and press button shortly (**SW**), the value flashes

|            |         |        |
|------------|---------|--------|
| LIM:25km/h | C3: 8   | C13: 0 |
| DIM:26"    | C4: 0   | C14: 2 |
| UNT: 0     | ►C5: 10 | C15: 6 |
| P1: 87     | C6: 3   | L1: 0  |
| P2: 1      | C7: 0   | L2: 0  |
| P3: 1      | C8: 0   | L3: 1  |
| P4: 0      | C9: 0   | L4: 5  |
| P5: 12     | C10: N  |        |
| C1: 2      | C11: 0  |        |
| C2: 0      | C12: 4  |        |

C5 parameter setting interface

C5 is controller maximum operating current adjustment setting (tiny-adjustment of limit current value), the default value is 10, setting range is 0-10, press  button (**UP**) or  button (**DOWN**) for selection.

C5 parameter definition table:

| C5 value | Maximum current value(A)                      |
|----------|-----------------------------------------------|
| 00       | Three level slow start/ Maximum current value |
| 01       | Two level slow start/ Maximum current value   |
| 02       | One level slow start/ Maximum current value   |
| 03       | Maximum current value $\div$ 2.00             |
| 04       | Maximum current value $\div$ 1.50             |
| 05       | Maximum current value $\div$ 1.33             |
| 06       | Maximum current value $\div$ 1.25             |
| 07       | Maximum current value $\div$ 1.20             |
| 08       | Maximum current value $\div$ 1.15             |
| 09       | Maximum current value $\div$ 1.10             |
| 10       | Maximum current value                         |

When C5 setting is 10, maximum current value is controller maximum operating current value (ie, limit current value); when setting is 9, maximum current value divided by 1.10, when setting is 8, maximum current value divided by 1.15 and so on.

After finishing C5 parameter setting, press  button (**SW**) to return to parameter

setting interface

### ○ C6 Backlight Brightness Adjustment Setting

Under parameter setting interface, move cursor to C6 and press  button shortly (**SW**), the value flashes

|            |        |        |
|------------|--------|--------|
| LIM:25km/h | C3: 8  | C13: 0 |
| DIM:26"    | C4: 0  | C14: 2 |
| UNT: 0     | C5: 10 | C15: 6 |
| P1: 87     | ▶C6: 3 | L1: 0  |
| P2: 1      | C7: 0  | L2: 0  |
| P3: 1      | C8: 0  | L3: 1  |
| P4: 0      | C9: 0  | L4: 5  |
| P5: 12     | C10: N |        |
| C1: 2      | C11: 0 |        |
| C2: 0      | C12: 4 |        |

C6 parameter setting interface

C6 is the meter backlight brightness adjustment setting, the default value is 3, and setting range is 1-5, press  button (**UP**) or  button (**DOWN**) for selection.

C6 parameter definition table:

| C6 value | Backlight brightness |
|----------|----------------------|
| 1        | Dimmest              |
| 2        | Darker               |
| 3        | Standard             |
| 4        | Brighter             |
| 5        | Brightest            |

After finishing C6 parameter setting, press  button (**SW**) to return to parameter setting interface.

### ○ C7 Cruise Function Setting

Under parameter setting interface, move cursor to C7 and press  button shortly (**SW**), the value flashes

|            |         |        |
|------------|---------|--------|
| LIM:25km/h | C3: 8   | C13: 0 |
| DIM:26"    | C4: 0   | C14: 2 |
| UNT: 0     | C5: 10  | C15: 6 |
| P1: 87     | C6: 3   | L1: 0  |
| P2: 1      | ► C7: 0 | L2: 0  |
| P3: 1      | C8: 0   | L3: 1  |
| P4: 0      | C9: 0   | L4: 5  |
| P5: 12     | C10: N  |        |
| C1: 2      | C11: 0  |        |
| C2: 0      | C12: 4  |        |

C7 parameter setting interface

C7 is cruise function setting, the setting range is 0 or 1, press  button (**UP**) or  button (**DOWN**) for selection.

C7 parameter definition table:

| C7 value | Cruise function |
|----------|-----------------|
| 0        | Off             |
| 1        | On              |

After finishing C7 parameter setting, press  button (**SW**) to save return to parameter setting interface

### ○ C8 Motor Operating Temperature Display Setting

Under parameter setting interface, move cursor to C8 and press  button shortly (**SW**), the value flashes

|            |         |        |
|------------|---------|--------|
| LIM:25km/h | C3: 8   | C13: 0 |
| DIM:26"    | C4: 0   | C14: 2 |
| UNT: 0     | C5: 10  | C15: 6 |
| P1: 87     | C6: 3   | L1: 0  |
| P2: 1      | C7: 0   | L2: 0  |
| P3: 1      | ► C8: 0 | L3: 1  |
| P4: 0      | C9: 0   | L4: 5  |
| P5: 12     | C10: N  |        |
| C1: 2      | C11: 0  |        |
| C2: 0      | C12: 4  |        |

C8 parameter setting interface

C8 is motor operating temperature display setting, the setting range is 0 or 1,

press  button (**UP**) or  button (**DOWN**) for selection.

C8 parameter definition table:

| C8 value | Motor operating temperature |
|----------|-----------------------------|
| 0        | Function off                |
| 1        | Function on                 |

**Please Note:** The motor operating temperature display requires installing temperature sensor in the motor, output temperature detection signal simultaneously.

After finishing C8 parameter setting, press  button (**SW**) to return to parameter setting interface.

#### ○ C9 Startup Password Setting

Under parameter setting interface, move cursor to C9 and press  button shortly (**SW**), the value flashes.

|            |         |        |
|------------|---------|--------|
| LIM:25km/h | C3: 8   | C13: 0 |
| DIM:26"    | C4: 0   | C14: 2 |
| UNT: 0     | C5: 10  | C15: 6 |
| P1: 87     | C6: 3   | L1: 0  |
| P2: 1      | C7: 0   | L2: 0  |
| P3: 1      | C8: 0   | L3: 1  |
| P4: 0      | ► C9: 0 | L4: 5  |
| P5: 12     | C10: N  |        |
| C1: 2      | C11: 0  |        |
| C2: 0      | C12: 4  |        |

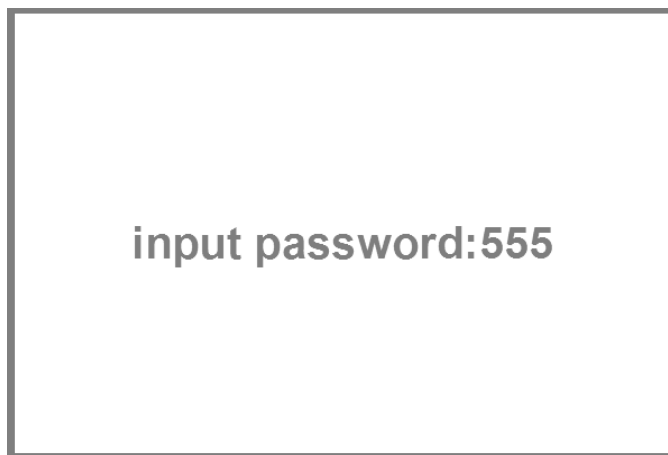
C9 parameter setting interface

C9 is meter power-on password setting, the default value is 0, press  button (**UP**) or  button (**DOWN**) for selection.

C9 parameter definition table:

| C9 value | Startup password setting |
|----------|--------------------------|
| 0        | Function off             |
| 1        | Function on              |

When C9 setting is 1, indicating that the password function is startup, and then enter the password settings interface, three password setting columns flash.



Password Setting Interface

The password setting is done sequentially from left to right, press  button to confirm after each setting and enter next setting. Password setting range is 000-999, press  button (**UP**) or  button (**DOWN**) for selection.

**Please note:** If you forget your password, the parameters can only be copied (see parameter copy) by data source meter prior to be decoded.

After finishing C9 parameter setting, press  button (**SW**) to return to parameter setting interface

#### ○ C10 Automatically Restore Factory Setting

Under parameter setting interface, move cursor to C10 and press  button shortly (**SW**), the value flashes.

|            |         |        |
|------------|---------|--------|
| LIM:25km/h | C3: 8   | C13: 0 |
| DIM:26"    | C4: 0   | C14: 2 |
| UNT: 0     | C5: 10  | C15: 6 |
| P1: 87     | C6: 3   | L1: 0  |
| P2: 1      | C7: 0   | L2: 0  |
| P3: 1      | C8: 0   | L3: 1  |
| P4: 0      | C9: 0   | L4: 5  |
| P5: 12     | ▶C10: N |        |
| C1: 2      | C11: 0  |        |
| C2: 0      | C12: 4  |        |

C10 parameter setting interface

C10 is automatic restore factory settings, the default is N, and the setting can be N, or Y, press  button (**UP**) or  button (**DOWN**) for selection.

C10 parameter definition table:

| C10 value | Restore default setting |
|-----------|-------------------------|
| N         | Function off            |
| Y         | Function on             |

When the meter is needed to restore default setting, C10 selects Y, hold  button long for about 2 seconds, all parameters restore default settings and exit setting environment, and then return to the display1.

After finishing C10 parameter setting, press  button (**SW**) to return to parameter setting interface

#### ○ C11 Meter Attribute Selection Setting

Under parameter setting interface, move cursor to C11 and press  button shortly (**SW**), the value flashes.

|            |         |        |
|------------|---------|--------|
| LIM:25km/h | C3: 8   | C13: 0 |
| DIM:26"    | C4: 0   | C14: 2 |
| UNT: 0     | C5: 10  | C15: 6 |
| P1: 87     | C6: 3   | L1: 0  |
| P2: 1      | C7: 0   | L2: 0  |
| P3: 1      | C8: 0   | L3: 1  |
| P4: 0      | C9: 0   | L4: 5  |
| P5: 12     | C10: N  |        |
| C1: 2      | ▶C11: 0 |        |
| C2: 0      | C12: 4  |        |

C11 parameter setting interface

C11 is meter attribute selection setting, the setting range is 0-2, press  button (**UP**) or  button (**DOWN**) for selection.

C11 parameter definition table:

| C11 value | Meter Attribute |
|-----------|-----------------|
|-----------|-----------------|

|   |                                                                                                                   |
|---|-------------------------------------------------------------------------------------------------------------------|
| 0 | Meter uses LCD8YN new version of communication protocol, it is compatible LCD1 and LCD2.                          |
| 1 | Meter uses LCD1 and LCD2 old version communication protocol, it is not compatible with second-generation display. |
| 2 | As data source for copying parameters, the meter transfers data to other second-generation meters.                |

C11 selects 2, hold  (SW) long for about 2 seconds to exit the setting environment, and then the meter is served as data source for copying parameter (see parameter copy), there's source logo on display interface.

|            |          |             |
|------------|----------|-------------|
| LIM:25km/h | C3: 8    | C13: 0      |
| DIM:26"    | C4: 0    | C14: 2      |
| UNT: 0     | C5: 10   | C15: 6      |
| P1: 87     | C6: 3    | L1: 0       |
| P2: 1      | C7: 0    | L2: 0       |
| P3: 1      | C8: 0    | L3: 1       |
| P4: 0      | C9: 0    | L4: 5       |
| P5: 12     | C10: N   | data source |
| C1: 2      | ▶ C11: 2 |             |
| C2: 0      | C12: 4   |             |

Data Source Display Interface

After finishing C11 parameter setting, press  button (SW) to return to parameter setting interface

### ○ C12 Controller Minimum Voltage Adjustment Setting

Under parameter setting interface, move cursor to C12 and press  button shortly (SW), the value

|            |         |        |
|------------|---------|--------|
| LIM:25km/h | C3: 8   | C13: 0 |
| DIM:26"    | C4: 0   | C14: 2 |
| UNT: 0     | C5: 10  | C15: 6 |
| P1: 87     | C6: 3   | L1: 0  |
| P2: 1      | C7: 0   | L2: 0  |
| P3: 1      | C8: 0   | L3: 1  |
| P4: 0      | C9: 0   | L4: 5  |
| P5: 12     | C10: N  |        |
| C1: 2      | C11: 0  |        |
| C2: 0      | ►C12: 4 |        |

flashes.

#### C12 parameter setting interface

C12 is controller minimum operating voltage adjustment setting (tiny adjustment of voltage shortage), the default value is 4, and the setting range is 0-7, press  button (UP) or  button (DOWN) for selection.

C12 parameter definition table:

| C12 value | Minimum Voltage(V)       |                          |                          |
|-----------|--------------------------|--------------------------|--------------------------|
|           | 24V Controller           | 36VController            | 48VController            |
| 0         | Default value-2V         | Default value-2V         | Default value-2V         |
| 1         | Default value-1.5V       | Default value-1.5V       | Default value-1.5V       |
| 2         | Default value-1V         | Default value-1V         | Default value-1V         |
| 3         | Default value-0.5V       | Default value-0.5V       | Default value-0.5V       |
| 4         | <b>Default value 20V</b> | <b>Default value 30V</b> | <b>Default value 40V</b> |
| 5         | Default value+0.5V       | Default value+0.5V       | Default value+0.5V       |
| 6         | Default value+1V         | Default value+1V         | Default value+1V         |
| 7         | Default value+1.5V       | Default                  | Default                  |

|  |  |            |            |
|--|--|------------|------------|
|  |  | value+1.5V | value+1.5V |
|--|--|------------|------------|

C12 default value is 4, namely, controller minimum operating voltage (voltage shortage value); when setting is 5, the default value plus 0.5V, when setting is 4, the default value minus 0.5V and so on.

After finishing C12 parameter setting, press  button (SW) to return to parameter setting interface

### ○ C13 ABS brakes of the controller and parameters of anti-charge control Setting

Under parameter setting interface, move cursor to C13 and press  button shortly (SW), the value flashes.

|            |        |          |
|------------|--------|----------|
| LIM:25km/h | C3: 8  | ► C13: 0 |
| DIM:26"    | C4: 0  | C14: 2   |
| UNT: 0     | C5: 10 | C15: 6   |
| P1: 87     | C6: 3  | L1: 0    |
| P2: 1      | C7: 0  | L2: 0    |
| P3: 1      | C8: 0  | L3: 1    |
| P4: 0      | C9: 0  | L4: 5    |
| P5: 12     | C10: N |          |
| C1: 2      | C11: 0 |          |
| C2: 0      | C12: 4 |          |

C13 parameter setting interface

C13 is ABS brakes of the controller and parameters of anti-charge control setting, the default value is 0 with the setting range between 0-5, press  (UP) button or  (DOWN) button to make selection.

C13 parameter definition table:

| C13 Value | ABS braking strength     | Energy recovery efficiency         |
|-----------|--------------------------|------------------------------------|
| 0         | None                     | None                               |
| 1         | Class 1 braking strength | Best energy recovery efficiency    |
| 2         | Class2 braking strength  | General energy recovery efficiency |
| 3         | Class 3 braking strength | Weaker energy recovery efficiency  |
| 4         | Class4 braking strength  | Poor energy recovery               |

|   |                         |                                |
|---|-------------------------|--------------------------------|
|   |                         | efficiency                     |
| 5 | Class5 braking strength | Bad energy recovery efficiency |

The recommended value of C13 is 1; other values need to be chosen with caution for use.

**Be sure to note:**

- 1.the higher is the braking intensity level, and the braking strength will be greater, the greater damage to the motor shaft accordingly.
2. If the battery has a BMS function, disable this function.

After finishing C13 parameter setting, press  button (SW) to return to parameter setting interface

○ **C14 Power-assist tuning parameters Setting**

Under parameter setting interface, move cursor to C14 and press  button shortly (SW), the value flashes.

|            |        |         |
|------------|--------|---------|
| LIM:25km/h | C3: 8  | C13: 0  |
| DIM:26"    | C4: 0  | ►C14: 2 |
| UNT: 0     | C5: 10 | C15: 6  |
| P1: 87     | C6: 3  | L1: 0   |
| P2: 1      | C7: 0  | L2: 0   |
| P3: 1      | C8: 0  | L3: 1   |
| P4: 0      | C9: 0  | L4: 5   |
| P5: 12     | C10: N |         |
| C1: 2      | C11: 0 |         |
| C2: 0      | C12: 4 |         |

C14 parameter setting interface

C14 is the parameters of power-assist tuning setting, with the default value of 2. The power-assist is between 1-4 gear, and it is invalid until P3 equals to 1. The setting range 1-3, and press  (UP) button or  (DOWN) button for short to make selection.

C14 parameter definition table:

| C14 Value | Assist strength of intelligent pedal motor |
|-----------|--------------------------------------------|
| 1         | Weak assist strength of motor              |
| 2         | General assist strength of motor           |
| 3         | Stronger assist strength of motor          |

After finishing C14 parameter setting, hold  button (SW) shortly to save the current set values and enter C15 parameter setting interface.

### ○ C15 Push-assist Speed Parameters Setting

Enter C15 parameters setting interface, C15 flashes.

C15 is the setting of push-assist speed, default value is 6, range from 4-6, press  (UP) button or  (DOWN) button to choose

|            |        |         |
|------------|--------|---------|
| LIM:25km/h | C3: 8  | C13: 0  |
| DIM:26"    | C4: 0  | C14: 2  |
| UNT: 0     | C5: 10 | ►C15: 6 |
| P1: 87     | C6: 3  | L1: 0   |
| P2: 1      | C7: 0  | L2: 0   |
| P3: 1      | C8: 0  | L3: 1   |
| P4: 0      | C9: 0  | L4: 5   |
| P5: 12     | C10: N |         |
| C1: 2      | C11: 0 |         |
| C2: 0      | C12: 4 |         |

#### C15 parameters

| C15valte | Push-assist speed |
|----------|-------------------|
| 4        | 4Km/H             |
| 5        | 5Km/H             |
| 6        | 6Km/H             |

After finishing C15 parameter setting, hold  button (SW) shortly to save current set values and enter C1 parameter setting interface again. Or hold  button (SW) long for about 2 seconds to exit C parameter setting environment and return to the display 1.

### L Parameter Setting

#### ○ L1 Parameter setting

Under parameter setting interface, move cursor to L1 and press  button shortly (SW), the value flashes.

L1 parameters are applicable to the automatic under-voltage controller. The

default of the factory is 0.

When L1=0, the automatic under-voltage controller can automatically select the under-voltage value according to the battery voltage.

When L1=1, the under-voltage value of the automatic under-voltage controller is forced to be 20V.

When L1 = 2, the under-voltage value of the automatic under-voltage controller is forced to be 30V.

When L1 = 3, the under-voltage value of the automatic under-voltage controller is forced to be 40V.

|            |        |        |
|------------|--------|--------|
| LIM:25km/h | C3: 8  | C13: 0 |
| DIM:26"    | C4: 0  | C14: 2 |
| UNT: 0     | C5: 10 | C15: 6 |
| P1: 87     | C6: 3  | ►L1: 0 |
| P2: 1      | C7: 0  | L2: 0  |
| P3: 1      | C8: 0  | L3: 1  |
| P4: 0      | C9: 0  | L4: 5  |
| P5: 12     | C10: N |        |
| C1: 2      | C11: 0 |        |
| C2: 0      | C12: 4 |        |

After finishing L1 parameter setting, press  button (SW) to return to parameter setting interface

### ○ L2 Parameter setting

Under parameter setting interface, move cursor to L2 and press  button shortly (SW), the value flashes

L2 parameter is suitable for the super high-speed motor controller. The default of the factory is 0.

L2 parameter will be activated when the value of P1 parameter exceeds 255. L2 parameter should use in combination with P1.

When L2=0, P1 parameter is set as the calculated value.

When L2=1, P1 parameter is set as a half of the calculated value.

|            |        |        |
|------------|--------|--------|
| LIM:25km/h | C3: 8  | C13: 0 |
| DIM:26"    | C4: 0  | C14: 2 |
| UNT: 0     | C5: 10 | C15: 6 |
| P1: 87     | C6: 3  | L1: 0  |
| P2: 1      | C7: 0  | ▶L2: 0 |
| P3: 1      | C8: 0  | L3: 1  |
| P4: 0      | C9: 0  | L4: 5  |
| P5: 12     | C10: N |        |
| C1: 2      | C11: 0 |        |
| C2: 0      | C12: 4 |        |

After finishing L2 parameter setting, press  button (SW) to return to parameter setting interface

### ○ L3 Parameter setting

Under parameter setting interface, move cursor to L3 and press  button shortly (SW), the value flashes

L3 parameter is applicable to the dual mode controller. The default of the factory is 1.

When L3=0, the controller will activate Non-Hall model only when the Hall sensor in the motor fails

When L3=1, the controller will choose the proper model to use according to the controller system optimization.

|            |        |        |
|------------|--------|--------|
| LIM:25km/h | C3: 8  | C13: 0 |
| DIM:26"    | C4: 0  | C14: 2 |
| UNT: 0     | C5: 10 | C15: 6 |
| P1: 87     | C6: 3  | L1: 0  |
| P2: 1      | C7: 0  | L2: 0  |
| P3: 1      | C8: 0  | ▶L3: 1 |
| P4: 0      | C9: 0  | L4: 5  |
| P5: 12     | C10: N |        |
| C1: 2      | C11: 0 |        |
| C2: 0      | C12: 4 |        |

After finishing L3 parameter setting, press  button (SW) to return to parameter setting interface

### ○ L4 Parameter setting

Under parameter setting interface, move cursor to L4 and press  button shortly (**SW**), the value flashes

L4 parameter is used to adjust the delay time of automatic shutdown of the LCD, the default value is 5, and the range of adjust is 5-120 minutes.

When L4=5, the delay time is 5 minutes.

When L4=6, the delay time is 6 minutes.

When L4=7, the delay time is 7 minutes.

.....

When L4=120, the delay time is 120 minutes.

|            |        |        |
|------------|--------|--------|
| LIM:25km/h | C3: 8  | C13: 0 |
| DIM:26"    | C4: 0  | C14: 2 |
| UNT: 0     | C5: 10 | C15: 6 |
| P1: 87     | C6: 3  | L1: 0  |
| P2: 1      | C7: 0  | L2: 0  |
| P3: 1      | C8: 0  | L3: 1  |
| P4: 0      | C9: 0  | ▶L4: 5 |
| P5: 12     | C10: N |        |
| C1: 2      | C11: 0 |        |
| C2: 0      | C12: 4 |        |

### ○ Exit Parameter Setting

After each setting, the meter will exit parameter setting interface and return to display

1, If hold  button (**SW**) for about 2seconds.

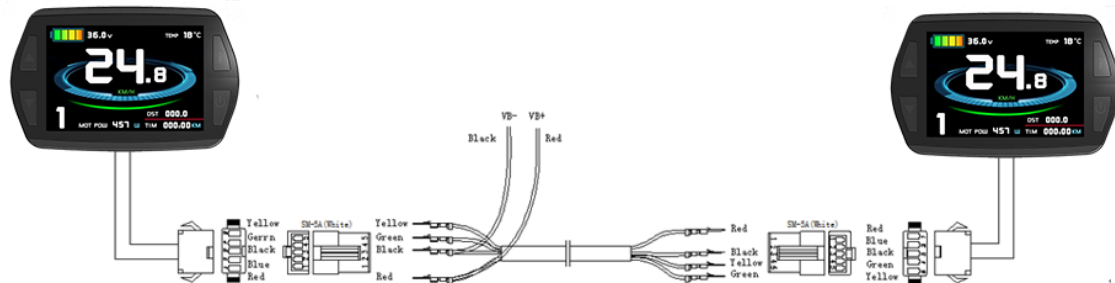
Under each parameter setting interface, if there's no button operation on the meter for more than 1 minute, and then the meter will automatically return to display 1, and the original parameters will be saved.

### Parameter Copy

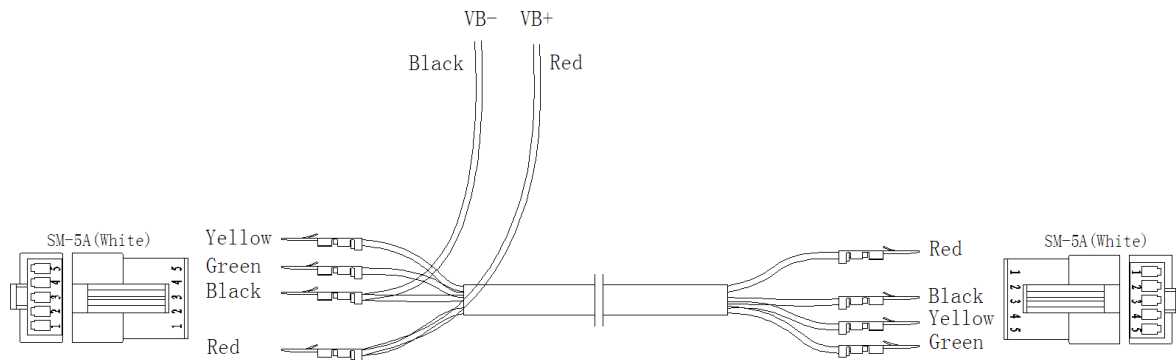
Set parameters (include general project parameter, P parameter, C parameter and L parameter) of all KT-LCD8YN meter produced by our company according to requirements, and set the meter to be a data source according to the method of "**C11 meter attribute**

selection setting".

Use special wiring cables to properly wire to LCD8YN meter needs to be copied according to the diagram.



Meter parameter copy wiring diagram



Special wiring cable

Turn on meter power supply of data source. Power supply of 48V or 36V or 24V is available (VB + positive power supply). After wiring the meter needs to be copied, hold  button long till meter is startup. Within 5 seconds after startup, hold  button (UP) and  button (DOWN) simultaneously for about 2 seconds, meter parameter copy is completed. If the copy operation is correct, the meter subject to be copied will display as follow.



Interface of finishing parameter copy

**Please note:** Both C9 power-on password and C11 meter attributes can't be copied. Besides, LCD8YN meter can only copy parameter of the same meter model.

#### **User Setting Note**

After entering the user setting environment, if there's no button operation on the data for more than 1 minute, the meter will automatically return to display1, and the new set parameters won't be saved.

The factory parameter set value and the default value of the meter can be set according to user requirements, the meter parameter can be restored by using "**C10 automatically restore factory setting**" approach when adjusting it.

The parameter of all torque controller and the controller with special function should be according to the result of the actual testing.

#### **Version Information**

KT\_LCD8YN\_V3.2

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