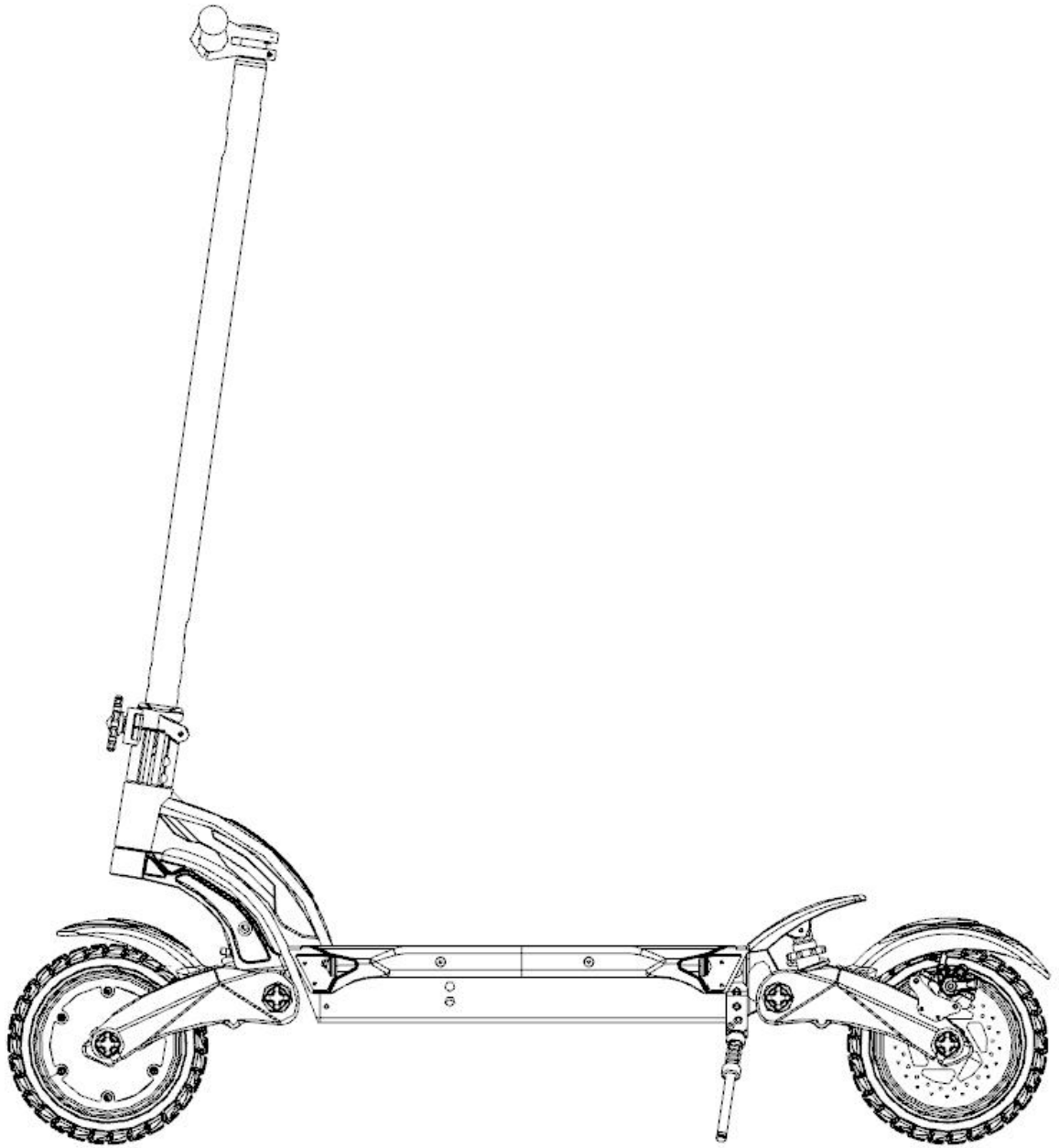


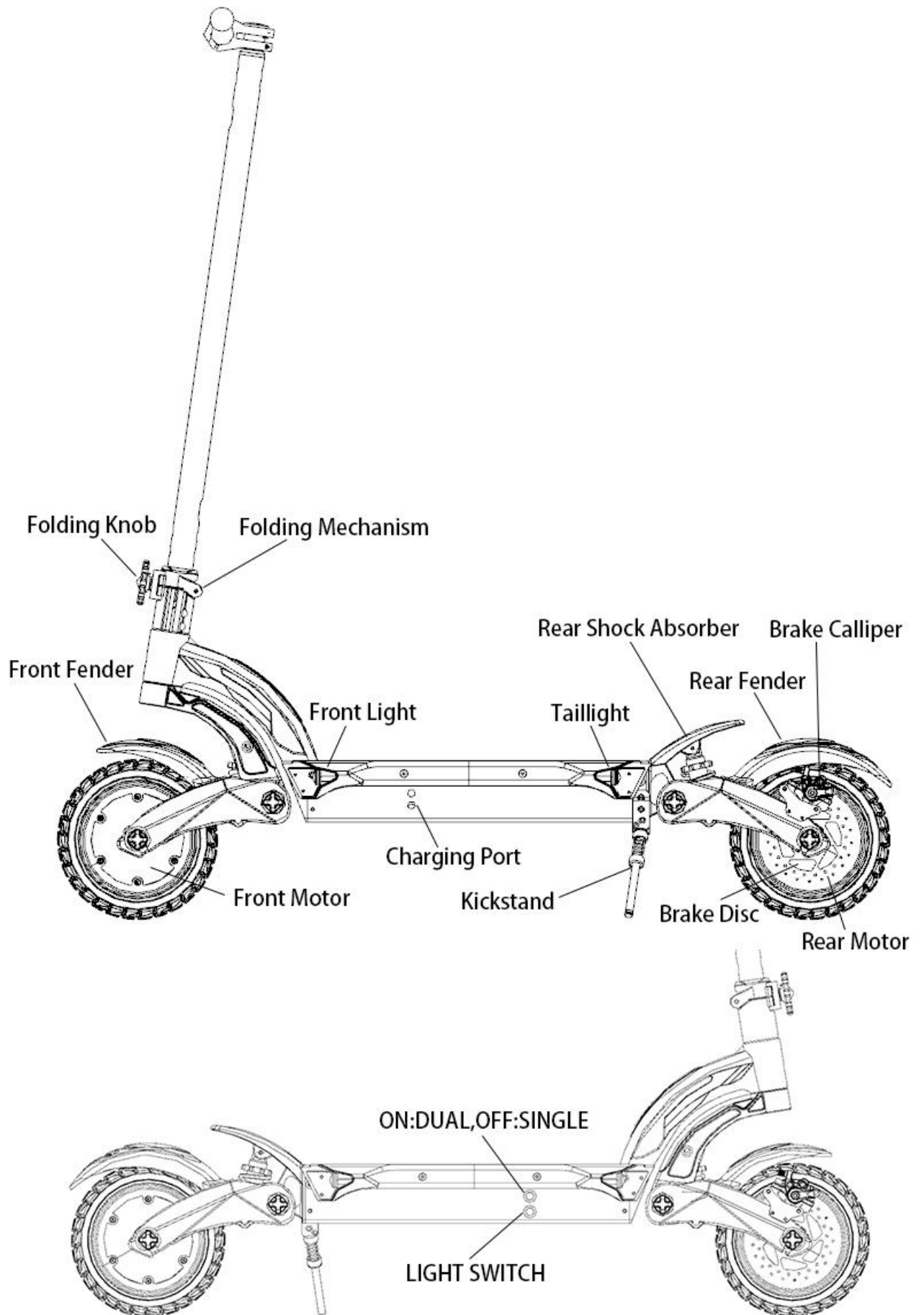
# USER MANUAL



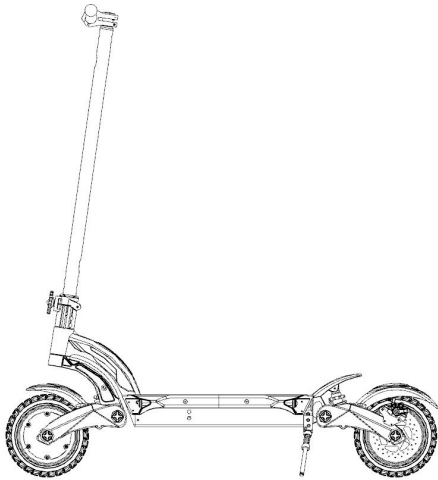
# ELECTRIC SCOOTER PARAMETER

| PARAMETER     |                                           |
|---------------|-------------------------------------------|
| BATTERY       | 48V19.2AH(21700)                          |
| MOTOR         | Front 500W + Rear 500W                    |
| MAX SPEED     | 53KM/H                                    |
| RANGE         | 30-40KM                                   |
| N.W/G.W       | 29KG/34KG                                 |
| LOAD CAPACITY | 150KG                                     |
| BRAKES        | Front and Rear Disc Brake                 |
| SUSPENSION    | Front and Rear Suspension                 |
| LIGHTS        | Front Lights,Rear Lights ,Brake Lights    |
| DISPLAY       | Battery Indicator, Performance Mode,Speed |
| CARTON SIZE   | 1185*245*515mm                            |

# ELECTRIC SCOOTER COMPONENTS



# PACKING LIST



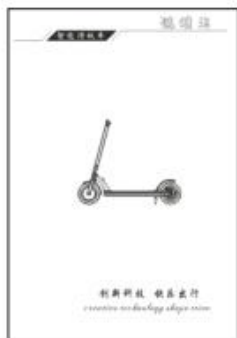
**Electric Scooter x1**



**Charger x1**

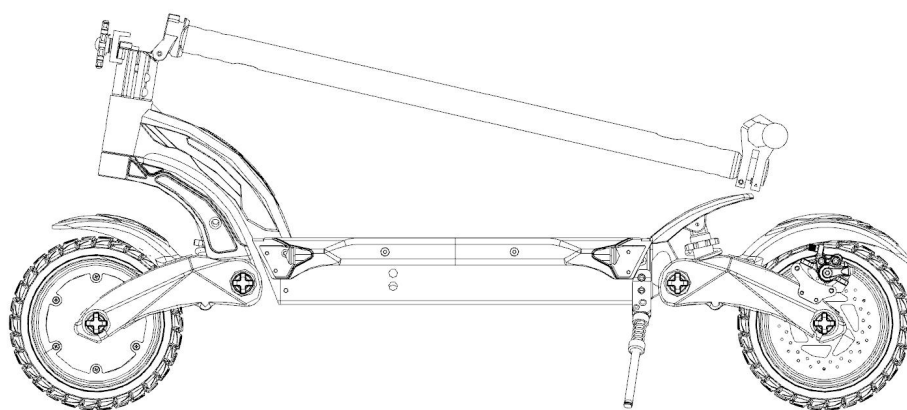


**Tool x1**

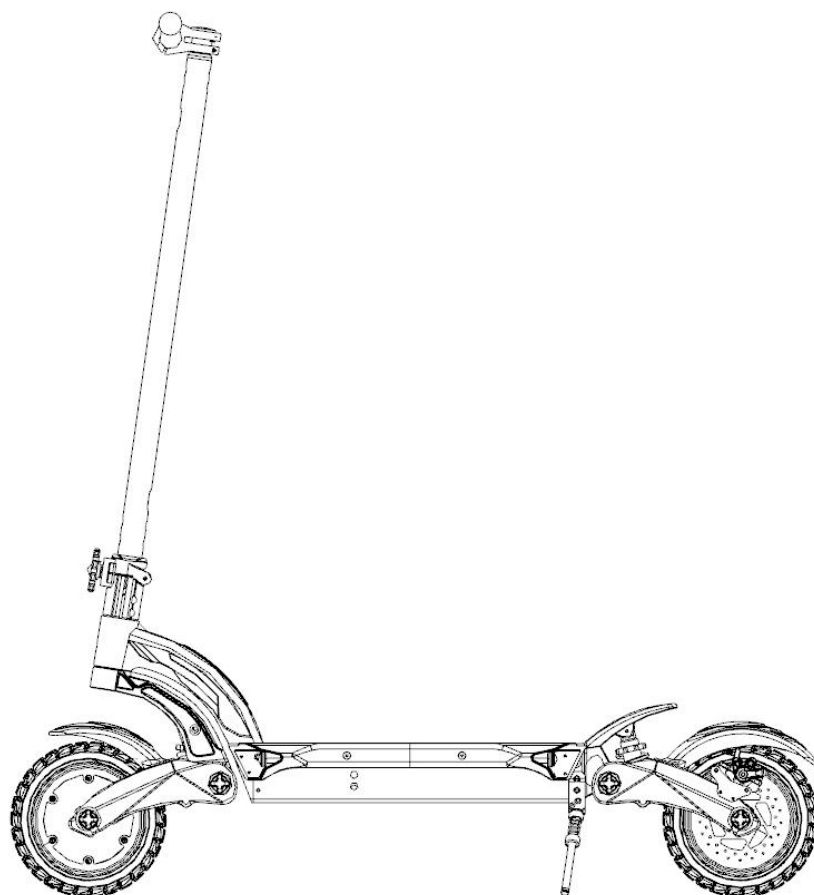


**Manual x1**





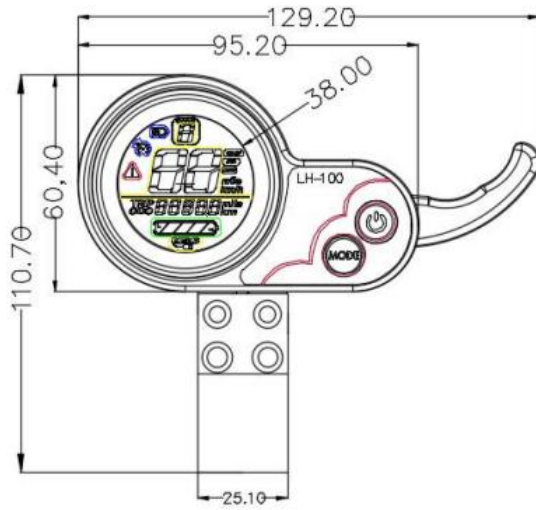
**FOLD**



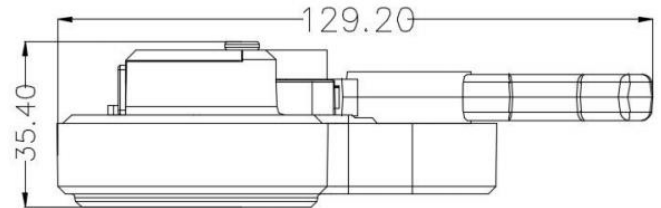
**UNFOLD**

## 1. Product specification

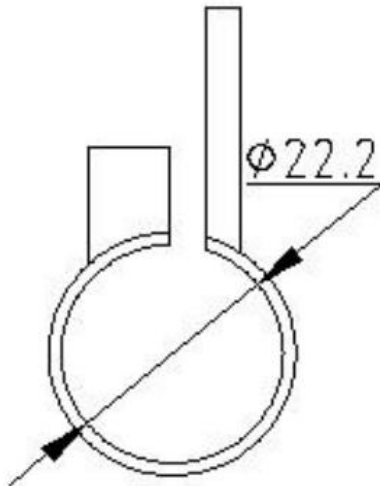
The shell of the product is ABS. The transparent window is crystal with high hardness acrylic, hardness value is equivalent to toughened glass.



**Elevation**



**Side elevation**



**The support of QS-S4**

## 2. Working Voltage and the Mode of Connection

Working Voltage: DC24V/36V/48V/52V/60/72V (Display choose by itself)

And we also can set the voltage.

## 3. Function:

### 1. Show content

The content of speed, power, hitch, total mileage, single mileage.

### 2. The function of controll and setting

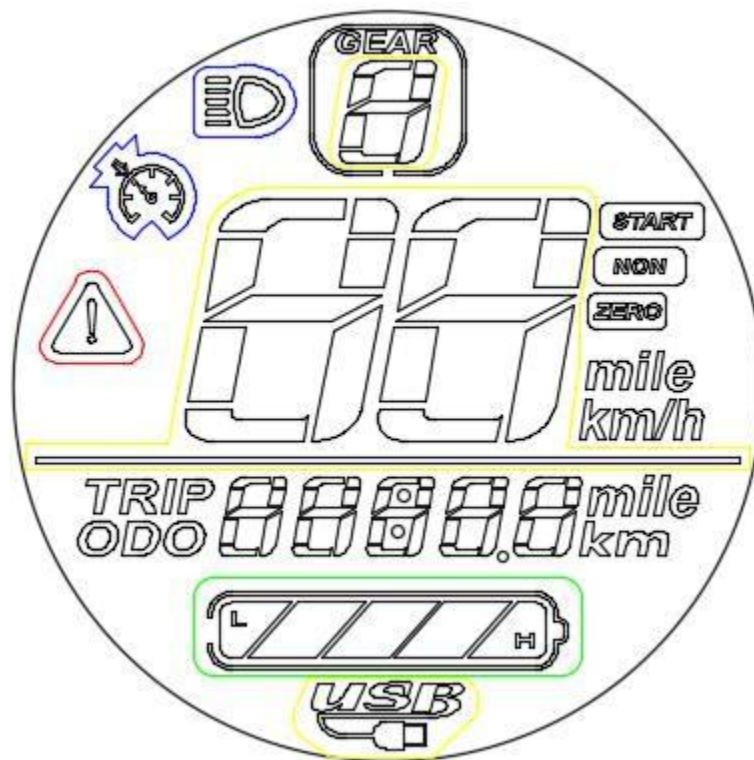
Controller the switch power. Wheel diameter setting. Idle automatic sleep time setting.

Backlight setting. Startup mode setting. Drive mode setting. Voltage level setting.

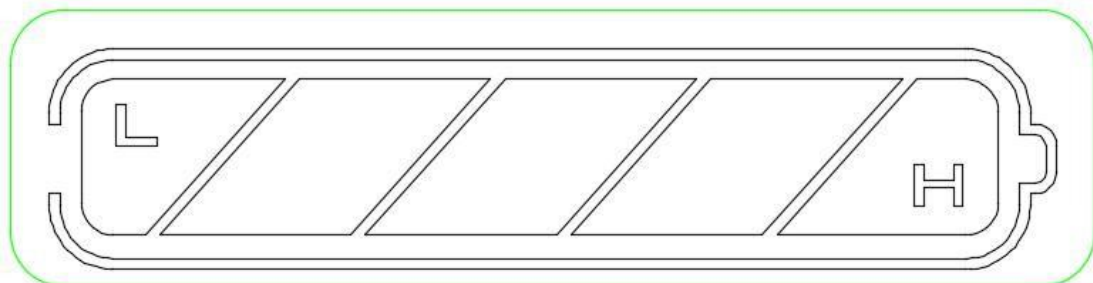
ControllerCurrent Limit Setting. USB charging function.

### 3. Communicating Protocol: UART

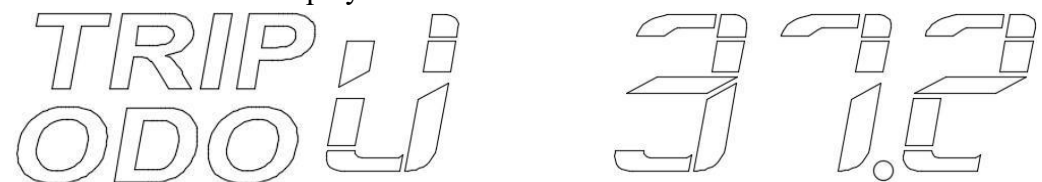
All content on display (Power on within 1 second)



#### 3.1 Voltage level

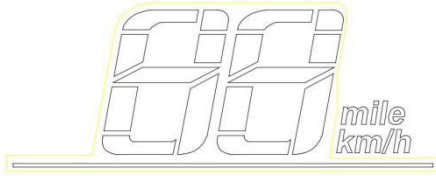


#### 3.2 Multifunctional display area



Total mileage ODO. Single mileage TRIP. Digital voltage display VOL. Fault code ERR

| Fault Code<br>(Decimal<br>System) | Fault Status                          | Remarks                    |
|-----------------------------------|---------------------------------------|----------------------------|
| 0                                 | Normal State                          |                            |
| E02                               | Brake                                 |                            |
| E03                               | Power Sensor Failure<br>(Riding Sign) | Not<br>Implemented<br>Here |
| E04                               | 6km / h Cruise                        |                            |
| E05                               | Real Time Cruise                      |                            |
| E06                               | Battery Under Voltage                 |                            |
| E07                               | Motor Failure                         |                            |
| E08                               | Handle Failure                        |                            |
| E09                               | Controller Failure                    |                            |
| E010                              | Communication<br>Reception Failure    |                            |
| E011                              | Communication<br>Failure              |                            |
| E012                              | BMS Communication<br>Failure          |                            |
| E013                              | Headlight Failure                     |                            |



### 3.3 Speed display area

Unit: MPH, KM/H

The speed signal is taken from the Hall signal inside the motor. Sent to controller by controller (Time of single Hall period, unit: 1MS). The display calculates the true speed based on wheel diameter and signal data to calculate the true speed.

(The motor Holzer also needs to set the number of magnetic steel)

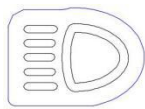


### 3.4 Vehicle power gear adjustment , 0-9 0-9 digital display.

### 3.5 Vehicle status display area



: Zero start and non-zero start prompt



: The headlight turns on the prompt



: Constant speed cruise hint



: Communication fault prompt



: USB charging hint

#### 4. Setting

P01: Backlight brightness: The 1 level is the darkest, Level 3 brightest; Default: 3

P02: Mileage: unit, 0: KM; 1: MILE; Default: KM

P03: Voltage level: 24V, 36V, 48V, 52V, 60V. Default: 52V

P04: Dormancy time: 0 means no dormancy; Other numbers are dormant time. The range is 1-60 minute. Default: 5

P05: Reserve

P06: Wheel diameter: The unit is inch. The accuracy is 0.1; Default: 10.0

P07: Speed measuring magnetic steel number. The range is 0-255. Default: 28

P08: Rate-limiting: The range is 0-100km/h. Default: 100

P09: Zero start, no zero start setting; 0 means zero start. 1 means no Zero start. Default: 0

P10: Reserve

P11: EABS switch choose. The range is 1-5. 0 means closing. 1 means weakest. 2 Means strongest

P12: Soft and hard start strength. The range is 1-5. The softest is 1. The hardest is 5. Default: 3

P13: Reserve

P14: Reserve

P15: Controller under-voltage

P16: ODO Zero setting: keep pressing + for 5 seconds, ODO will zero clearing.

P17: When it shows 0, it can not use cruise. When it shows 1, it can use cruise. Default: 0

P18: Reserve

P19: Reserve

P20: Communication protocol is defaults 4. It can not change.

#### 4.Introduction of buttons and interfaces

1. When it is shutdown, long-time pressing  to turn on the power. When it is power on, it can change interface between the ODO, TRIP, VOL,by pressing  for short time.

2. When it is power on, long-time pressing  to turn off, short-time pressing can change gear.

3. Long-time pressing  and  can get into the menu to change the interface.

4. Get into the setting interface, short-time pressing  can change parameter.

Short-time pressing or long-time pressing can add or reduce the numerical value.After changing,short-time pressing  to change the nextnumerical value.After changing,long-time pressing  and  to get out of the interface,or waiting 8 seconds, it can save the numerical value and drop out by itself.

5. Crankshaft regulating motor speed by Up and down.

Motor speed increase;Relax hand itreturn to zero.