

# 866 display + controller

for different supplier/enduser , outlook maybe the same, inner program is different.

## it has 3 model program

Controler model a =throttle full speed 0-9gears, pedal power 3-9gears .

Controler model b =throttle full speed 1-9gears, pedal speed 3-9gears .

Controler model c =both pedal and throttle 3-9gears for speed.

## 886 display+controller program

model C: both pedal and throttle has  
3/5/6/9 gears for speed

under each gear, the bike speed grows from weak to strong  
Such as when is 5 gears , 1-5 gears has ratio bellow

20%-8km/h  
40%-15km/h  
60%-23km/h  
80%-32km/h  
100%-40km/h  
0gear has no output

model b: throttle 1-9gears all full speed,  
pedal speed 3/5/6/9 gears  
under each gear, the bike speed grow from weak to strong

model A; throttle 0-9gears all full speed,  
pedal power 3/5/6/9 gears  
under each gear, the bike power grow from weak to strong  
Such as when is 5 gears , 1-5 gears has ratio bellow

30%-5A  
45%-7.5A  
60%-10A  
80%-12.5A  
100%-15A

zero gear, throttle full speed,pedal shut off

model A POWER gear like the torque sensor



USB charging port



can be made to order

BATTERY power  
positive and negative

motor 3 phase wire

motor hall sensor

self learning wire

light horn power wire

hall linear EABS

LOW BRAKE

1:1 pas sensor

throttle

lcd display port

power lock

350w controller for 866 display  
A/B/C 3 program,



this wire is default setting  
for 6mosfet controller  
if need other wire should order in advance

>350w the wire will be different

# 350w 6mosfet controller size 88\*52\*30mm

-  gears/data add  
long press to control light on off
-  power on/off button,  
SWITCH data interface
-  gears/data reduce,  
long press to control  
cruise/6km push



long press +/- at same time will go into setting interface

short press power button will switch data interface,

short press+ or - will adjust data,

under setting interface, long press power& + button will go into passcode setting interface

short press power button will move the cursor, short press add or reduce will adjust data,

long press power and + will save and exit passcode interface, go into setting interface.

long press + and - will save and exit to running interface.

after machine open, and input passcode, long press power button will go into running mode,

if passcode wrong, will stay in passcode interface

in stationary mode, short press power button will switch interface.. will not jump to main interface.

in running mode, switch to interface 2/3, after 5 seconds, it will just to main interface automatically.

indicate current speed ,range, time

light port, display button control

rated working voltage: 24v/36v/48v/60v

power available :150w-350w

max current available: 10A-20A (default setting 13a)

battery voltage undervoltage protection point : 19v/30v/41v/52v

fit for motor phase angle: 60degree/120 degree (automatic learn )

## Application:

1. Fit for different battery: lead-acid, Li-Fe battery, LNCMO battery {Li(NiCoMn)O<sub>2</sub>}, and so on. For different material there is different under voltage protecting point.
2. Fit for **DC brushless gear motor** lower than 350w, and **gearless motor**, and high speed motor and so on.

## controller features :

1. **Automatically identify motor phase and angle**
2. **dual mode** (When motor hall work normally, controller work with hall mode. When motor hall damaged, controller can intelligently test it and change to no-hall mode and keep on work. (other controller if not double mode, cannot work if motor hall damaged)
3. **can control and match with other electric parts**
4. **when battery voltage is not enough the controller will automatically lower current, this will protect your battery for longer life.**

## controller function

1. 1:1 PAS power
2. BRAKE AND CUT off power
3. match with lcd display
4. Throttle
5. light/horn power wire

6. self learning wire,  
when u get this display and controller group , !!!!!

1. first , find right Power positive negative pole on controller, Connect with battery positive and negative output (please donot make it oppositely),

2. USE self learning function intelligently identify motor phase and turning direction. STEPS ARE BELLOW

Connect power, motor phase wire, hall wire, electric switch, rolling handlebar /throttle wire, learning wire, make sure it is right and turn power on, motor runs automatically.

If direction right, then cut off learning wire after 2-3seconds, this finished the learning.

If motor turns in opposite direction, then cut off learning wire, and connect on immediately or using handlebar, motor change to right direction automatically. Cut off learning wire after motor running 2-3seconds, this finished learning.

Using Learning wire only in connecting period, when finished wiring, cut off it, you need not connect it.

7. hall linear ebs brake

other function optional (vom Lieferanten fest eingestellt)

1. cruise . 6kmh.push
- 3., EBS brake --this will make brake stronger
4. brake light -
5. speed limit adjustable wire - 6. reverse -

# Smart Brushless Controller Connection Diagram

