
Product Specification

August 2013

Product: Super thin LCD display display

Model: APT12LCD03U

Customer Type:LCD03U

Client:

Customer

audit:

Supplier: Tianjin APT Science and Technology Co., Ltd.

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Approval:

1 Summary

1.1 Product Name:

Super thin LCD display display



5-cell waterproof connector

1.2 Product Type:

APT12LCD03U / LCD03U

1.3 Supplier

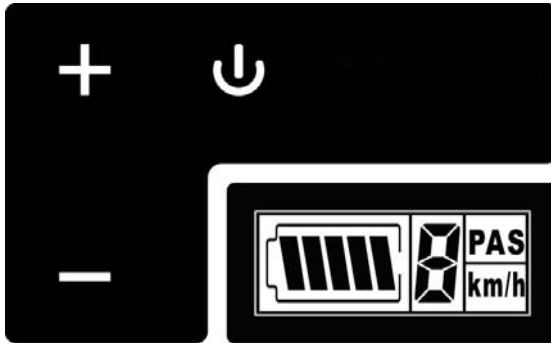
Tianjin APT Science and Technology Co., Ltd.

1.4 Functional Description

- ✧ Voltage:24V、36V
- ✧ Assist level 0-6 (max 9), 0 means no power assist
- ✧ UART communication protocol
- ✧ Error code indicator
- ✧ Smart battery indicator
- ✧ WALKING mode (6km)
- ✧ Headlight control (Optional)
- ✧ Rated operating current : 10mA
- ✧ Max operating current : 20mA
- ✧ Output current to the controller : 50mA

- ✧ Off leakage current < 1uA
- ✧ Operating temperature: -18 ~ 60 °C.
- ✧ Storage Temperature: -30 ~ 70 °C.
- ✧ 90% relative humidity, non-condensing.

1.5 Film icon



2 LCD introductions

2.1 LCD All showing Figure as follow:



2.2 WALK mode




6KM显示





2.3 Assist level display



助力显示

3 Functional introduction

- ✧  button : Open / close the vehicle power.

- ✧  button : Press the button to increase the PAS level.
- ✧  button : Press and hold the button for 1.5 second can turn ON/OFF the head light and the LCD backlight.
- ✧  button : Press the button to decrease the PAS level.
- ✧  button : Press and hold the button for 1.5 second, get into WALKING mode.

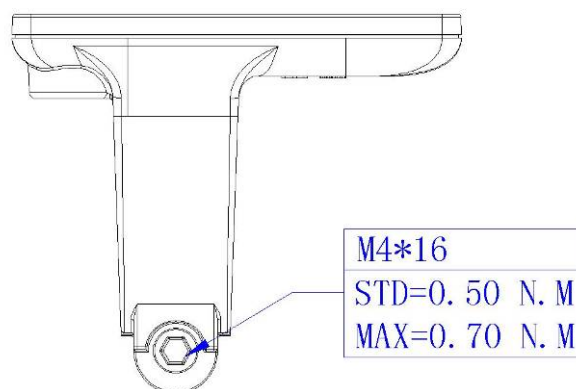
4 Error Code define

LCD03U can give warning when E-bike has error, the **PAS** and **km/h** icon flash together, error code display on assist position, error No. from 1~7, see the table below.

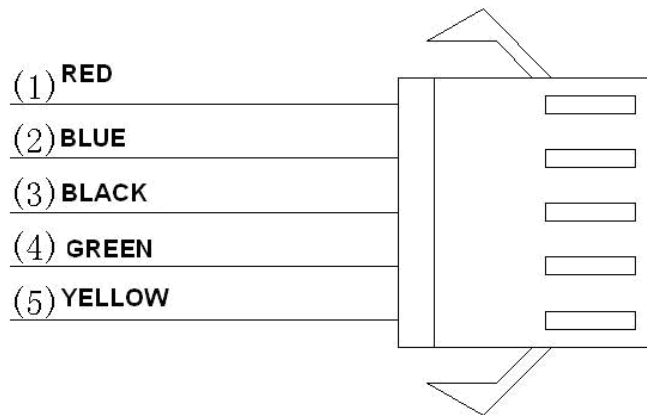
Error Code	Error description	Handle
1	Communication Error	Check the cable connection
2	Controller protection	Check three-phase power line.
3	three-phase power error	Check three-phase power line connection
4	Battery low	Charge the battery
5	Brake error	Check the brake connection.
6	Throttle error	Check Throttle connection.
7	Hall error	Check the hall connection
8-F	Reserved	

5 Assembly instructions

Please pay attention to the screw's torque value, damaged caused by excessive torque is not within the scope of the warranty.



6 Connector wires instructions



- 1、 Red wire : Anode(24v/36v)
- 2、 Blue wire : Power cord to the controller
- 3、 Black wire : GND
- 4、 Green wire : RxD (controller -> display)
- 5、 Yellow wire : TxD (display -> controller)

7 Certification

IP65 (water proof) / ROHS.