

Pasion eBike

**BECOME A WHOLESALER / DISTRIBUTOR  
START YOUR ONLINE BUSINESS**

**CONVERTIRSE EN MAYORISTA / DISTRIBUIDOR  
COMENZAR TU NEGOCIO EN LÍNEA.**

**СТАТЬ ОПТОВЫМ ТОРГОВЦЕМ  
НАЧАТЬ ВАШ ОНЛАЙН - БИЗНЕС**

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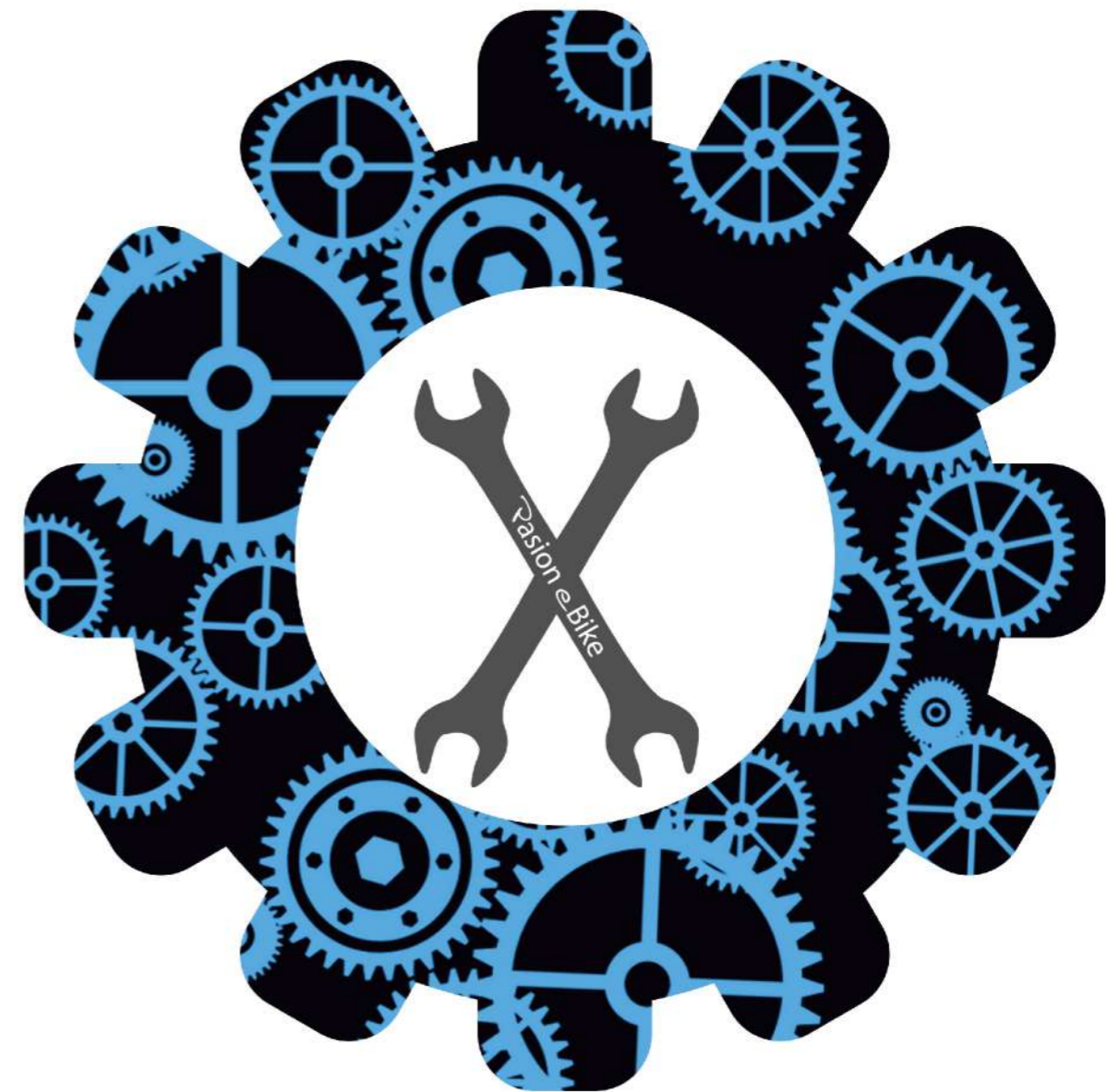
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**PASIONEBIKE.COM**

eBike Conversion Kit Installation  
and User Manual



# Contents

(1). Freewheel or Cassette  
.....Page 1

(2). Introduction & Precautions  
.....Page 4

(3). Warranty & Exemption  
.....Page 5

(4). Install Procedure  
.....Page 6

(5). Speed & Mileages  
.....Page 18

(6). Additional Notes  
.....Page 19

## What Fits with Your Bike

1 :What is Right Tyre Size of Motor Kit for Your eBike ?

- |                           |                            |
|---------------------------|----------------------------|
| 20" = Tyre Size 20*1.95   | 24" = Tyre Size 24*1.95    |
| 26" = Tyre Size 26*2.1    | 27.5" = Tyre Size 27.5*2.1 |
| 28" = Tyre Size 28*1.5    | 29" = Tyre Size 29*2.1     |
| 700C = Tyre Size 700C*45C |                            |

2: Freewheel or Cassette Motor Kit ? ( Refer to Next Two Pages)

3: Hydraulic Brake or Mechanical Brake ?

All Pasion eBike Motor Kit come with Mechanical Brake.

4: Disc Brake or V Brake

Pasion eBike Motor Kit Most is Disc Brake ,If your Bike is V Brake , Contact us First.



DISC BRAKE



V-BRAKE

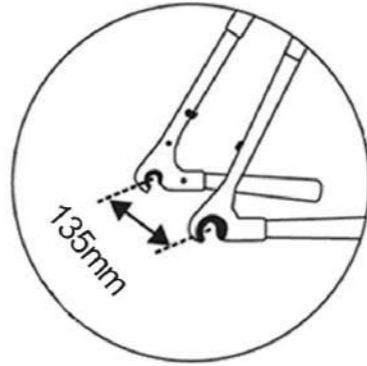
5: If your Crankset is Hollow Intergrated Crankset ,Contact us First. You Need Special PAS.

## Freewheel or Cassette Motor Kit ?

Rear Drop Out :135mm

The Threaded Freewheel Assembly is the Original Standard for Rear 1, 6, 7, 8,9 Speed Gear Clusters.

### Freewheel Gears Screwed onto hub



### Freewheel Motor Kit will Fit your Bike

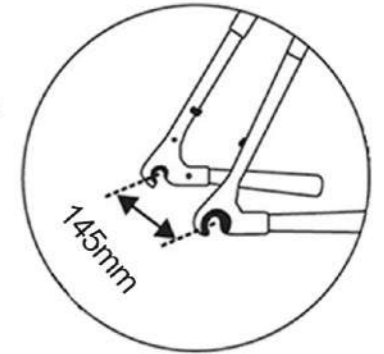


Threaded Freewheel System

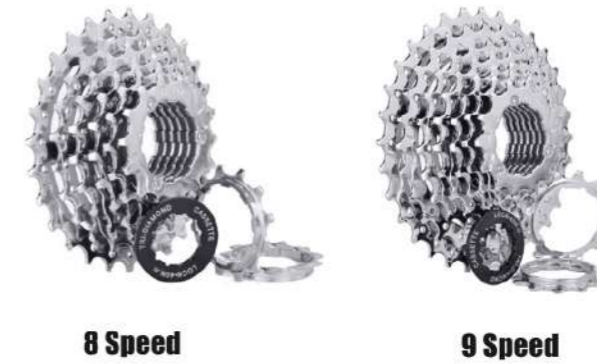
## Freewheel or Cassette Motor Kit ?

Rear Drop Out :145mm

In a Cassette Freehub System, the Freewheeling Mechanism is Part of the Hub, and Instead the Cassette Cluster Contains Just the Gears That Slide Over a Splined Interface. The Cassette Freehub System Would be Found on Bikes with 8 or 9 Speed, If 10 Speed Only Engineer Can Handle it.



### Cassette Gears Slide onto hub



### Cassette Motor Kit will Fit your Bike



Cassette FreeHub System

### Need Pasion eBike Freewheel ( Thread in ) Motor Kit

If Rear Drop out is 135mm With Freewheel Gears Screws onto Hub(1,6,7,8,9 Speed) Go With Pasion eBike Freewheel ( Thread in Type ) Motor Kit.

If Rear Drop out is 135mm and with Cassette Gears Slide Onto Hub(8 or 9 Speed). Set Rear Derailleur to 7 Speed or Change to Freewheel Gears Screws onto Hub.

### Need Pasion eBike Cassette Motor Kit

If Rear Drop out is 145mm and with Cassette Gears Slide onto Hub (8 or 9 Speed ).

## Introduction & Precautions

### Brief Introduction

To create an electric bicycle is a rewarding project, but caution is advised. Customers converting their own bike are responsible for the safe operation and installation of the kit.

Please kindly read the user manual carefully before starting the conversion. We disclaim

any responsibility injury, damage or other consequences arising from the use of this product.

Please read the user manual carefully before starting the conversion.

Please convert the bicycle on the basis of a full understanding of the manual.

It is assumed that the installer has enough technical knowledge about how to work with tools, how to torque nuts and screws, how to do general bike adjustment and how to do wiring with connections.

### User Precautions

Even if you are an experienced rider, take the opportunity to familiarize yourself with this conversion kits before you take your first trip.

Read all of the enclosed installation and operating instructions and follow the instructions prior to first use.

The e-bike kit has lots of sealed electronic parts, do not dismantle the parts, let them fall or punctured them.

- The electric parts should NEVER be submerged in liquid or left in a wet state.
- Storage temperature of lithium ion battery is -20~+60 °C.
- Batteries should be charged immediately after every use and never be stored for long periods of time without maintenance charging, if you have to store them for a long period of time, please remember to charge once at least every two months.
- The bike should be checked carefully after a long time idle.
- Spoke tension should be checked after the first 50km and adjusted where necessary.
- Make sure the tires have proper pressure before riding.
- Make sure the brakes are operating properly before riding.
- Always wear a helmet when riding an electric bicycle for your own safety.
- Adhere to all valid traffic regulations.
- Adhere to all national, state and local council laws.
- Keep in mind that other traffic participants may underestimate the speed of an electric bicycle.
- Ride with both hands on the handlebars when riding your electric bicycle.

## Warranty & Exemption

### Warranty Terms:

PRODUCT	WARRANTY TIME	CONDITION
Motor Only	One Year	Motor Wheel are Covered by a 1 Year Warranty Against Manufacturing Defects.
Battery	One Year	Battery Packs are Covered for a Period of 1 Year on Manufacturer Defects Only . Every Battery has Unique After-sale Code ,Do not Remove the Label.
Controller	Half Year	Controller Malfunction need to Return to Italy or Russian or Usa or China to Replace.
Accessories	Half Year	Mechanical Components are Covered by a Half Year Warranty Against Manufacturing Defects. Besides , the items returned must be in their original conditions .

### Exemption Terms

**No warranty claims are accepted in the case of damages due to the following:**

- External influences, particularly falling rocks, collision, accident and other external events with an immediate external effect due to mechanical powers.
- Purposeful and/or malevolent acts, theft and robbery as well as natural hazard events and/or acts of mischief.
- Inappropriate use, e.g. the product was exposed to liquids, chemicals of any type and/or extreme temperatures, wetness and humidity and/or if the battery suffers damages due to non-compliance with instructions.
- Overcharging the battery or not adhering to the instructions of battery handling.







**No warranty claims are accepted:**

- In the case of test, maintenance, repair and replacement work due to normal use.
- If the model, serial or product number on Pasion eBike product has been changed, deleted, blurred or removed.
- In the case of use of the battery in systems that are not approved for such use with this particular product.
- In the case of the operation of the Pasion eBike system with batteries other than the batteries designed for the Pasion eBike system (refer to user manual).
- If one or more than one Pasion eBike part has been opened, altered or repainted.

## Part 1: Getting Started

Open the Carton, Take Out All the Parts.  
Check the Parts According to the List.

### Parts List:

	Hub Motor Wheel		Controller
	LCD Control Panel		Twist Throttle with Key
	Brake lever (Left and Right)		Pedal Assistant Sensor

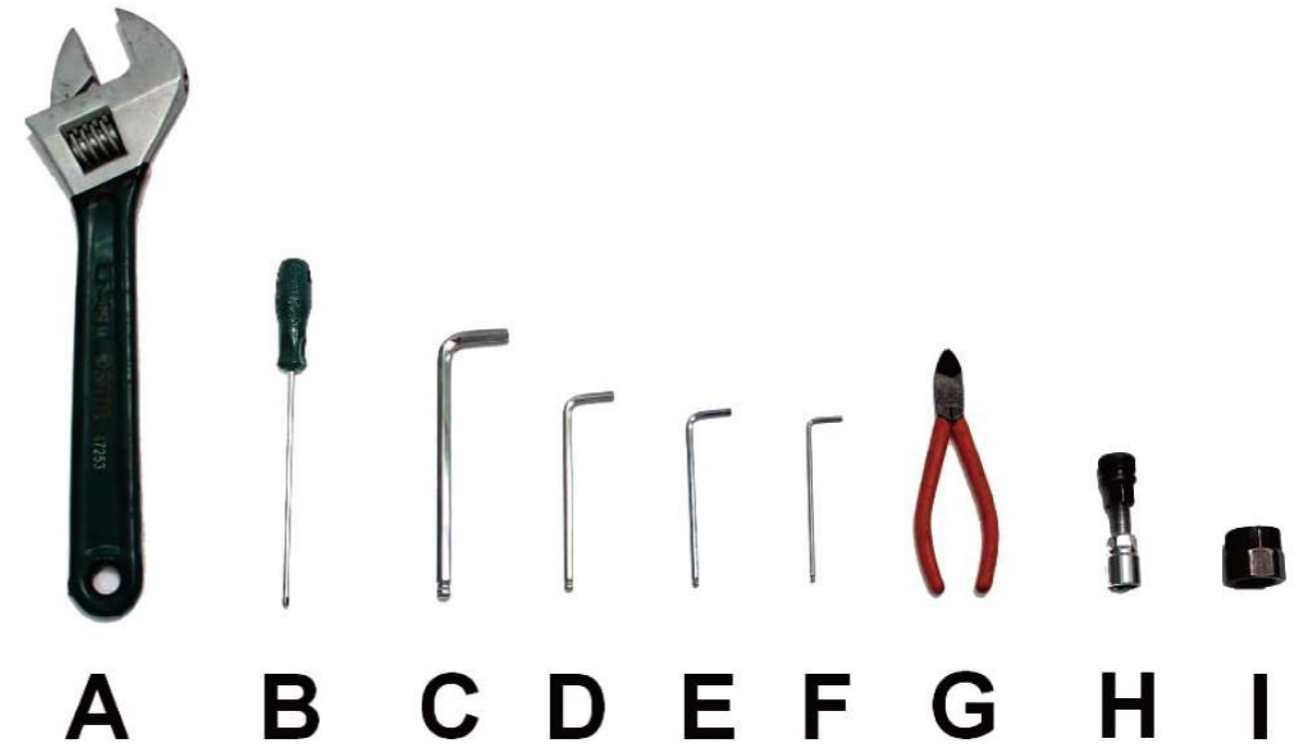
Note: Please check for any damage on the items. Take out the items, put them on the floor and start to build your own E-Bike through following pages.

## Part 2: Tools Needed

Which Tool do you need for installing

### List:

- A). Adjustable Wrench
- B). Phillips Screwdriver
- C,D,E,F). 4 pcs Socket Head Wrench with diameters 3.0mm, 4.0mm, 5.0mm, 8.0mm
- G). Diagonal Cutting Nipper
- H). Puller
- I). Socket Wrench



## Part 3 : Remove and Install Motor Wheel

- 1) Remove the original rear wheel.
- 2) Install the new one, fasten nuts on both axles.

Install your own disc brake rotor on motor wheel (if your ebike use disc brake)  
Put the motorized wheel in rear fork, please note motor cable shall come out from left side, motor axle must be put inside the socket of rear fork. Please make sure the spring is at axle end to protect cable.

Please try the disc brake rotor position, If the distance between rotor and rear fork is less than 15mm, then please put a washer between motor axle and fork to adjust the distance. Fasten all nuts.



## Part 4 : LCD Control Panel Mount

**LCD Control Panel has 2 parts: LCD Display with operation keyboard, Installation Bracket.**

### Installation Guide:

Wind several layers of Glue tape on handlebar so that the LCD clipper just fit it. Install Operation Key at Left Side(or Right Side), Clip LCD on Handlebar Fasten Two Nuts.



## Part 5 : Brake Lever Mount

**Brake Levers has 2 parts: Left Brake Lever, Right Brake Lever**

### Installation Guide:

Remove Original Brake Levers and Install This New One Put Brake Levers Into Both Sides of the Handlebar. Hold the Hand Lever to Find a Comfortable Position Then Fix It with 5.0mm Socket Head Wrench.



## Part 6 : Twist Throttle Mount

**Twist Throttle has 4 parts: Half-bar Twist Throttle, Left Side Grip, Right Side Grip, Key**

### Installation Guide:

Install Left Side Grip, Install Right Side Throttle and Fasten with 3.0mm Socket Head Wrench, Install Right Side Grip.



## Part 7: Pedal Assistance Mount

### PAS has two Parts: PAS Sensor, Magnetic Ring

PAS (Pedal Assistance Sensor), Also Known as Pedelec System, is a Necessary Component of an Electric Bike in European Countries. PAS Controls the Power Supplied to the Motor Through the Angular Velocity Pedal. (I.E. the Faster the Pedal Turns, the Faster the Motor Runs.)

Removing Your Bike Rightside Chainwheel, Put the PAS Signal Receiver Ring into the Axle and Fasten it by Ring Washer and Then put the Outer Magnetic Ring next to the Ring Washer. Make Sure they do not Contact Each Other by using Washers and with Less than 5mm

Distance, Please also Check the Magnetic Ring was Installed with Correct Rotation Direction (You Will See the Rotation Arrow on it), Now You can Install the Chainwheel and Fasten it.

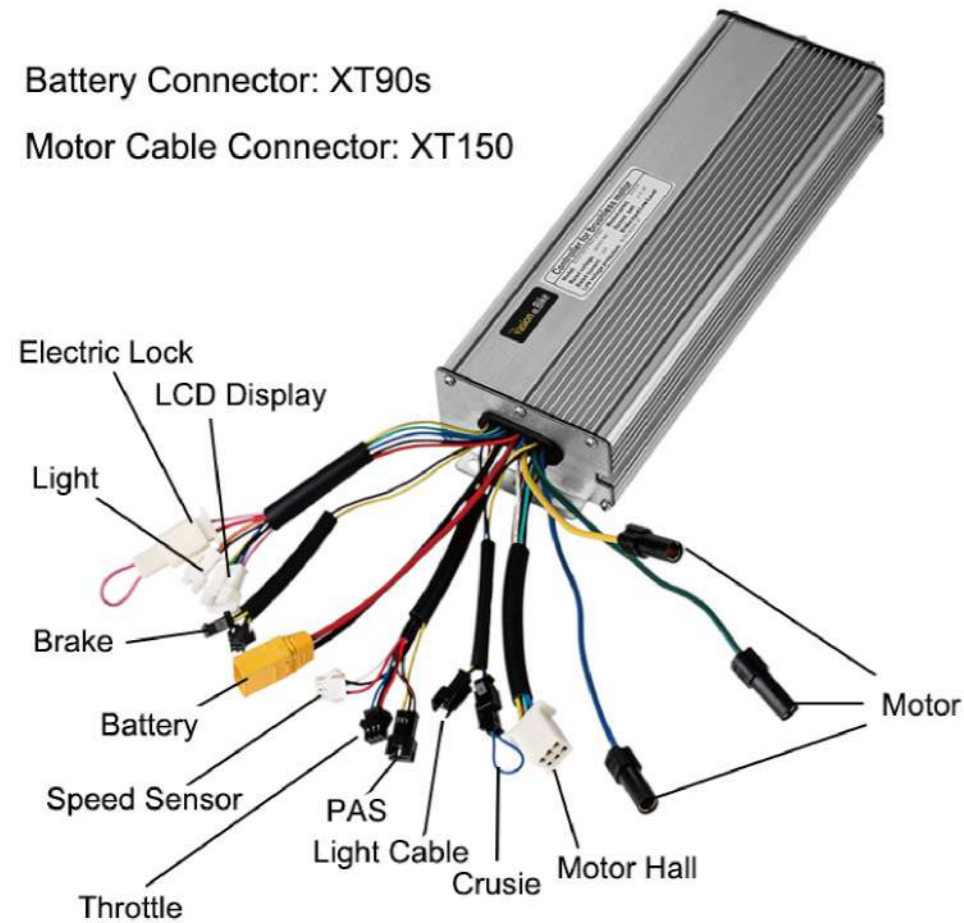
### Installation Guide:

Remove Left and Right Sides Cranks, Remove Chainwheel, Remove Bottom Bracket Install PAS Sensor at Right Side, Install Bottom Bracket, Install Plastic Magnetic Ring, Please Make Sure Rotation Direction is Correct and Distance to PAS Sensor is Less than 5mm. Install Chainwheel and Cranks.



## Part 8 : Controller Connection

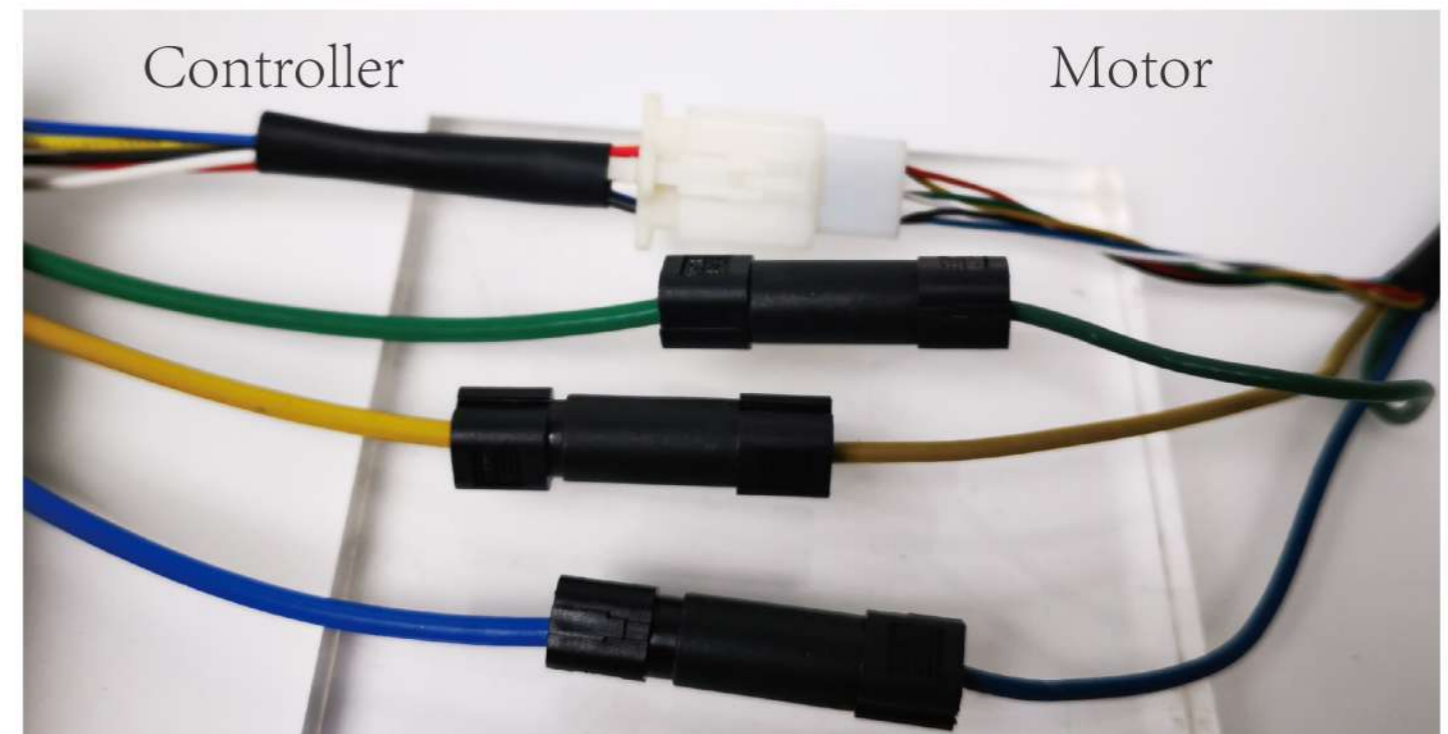
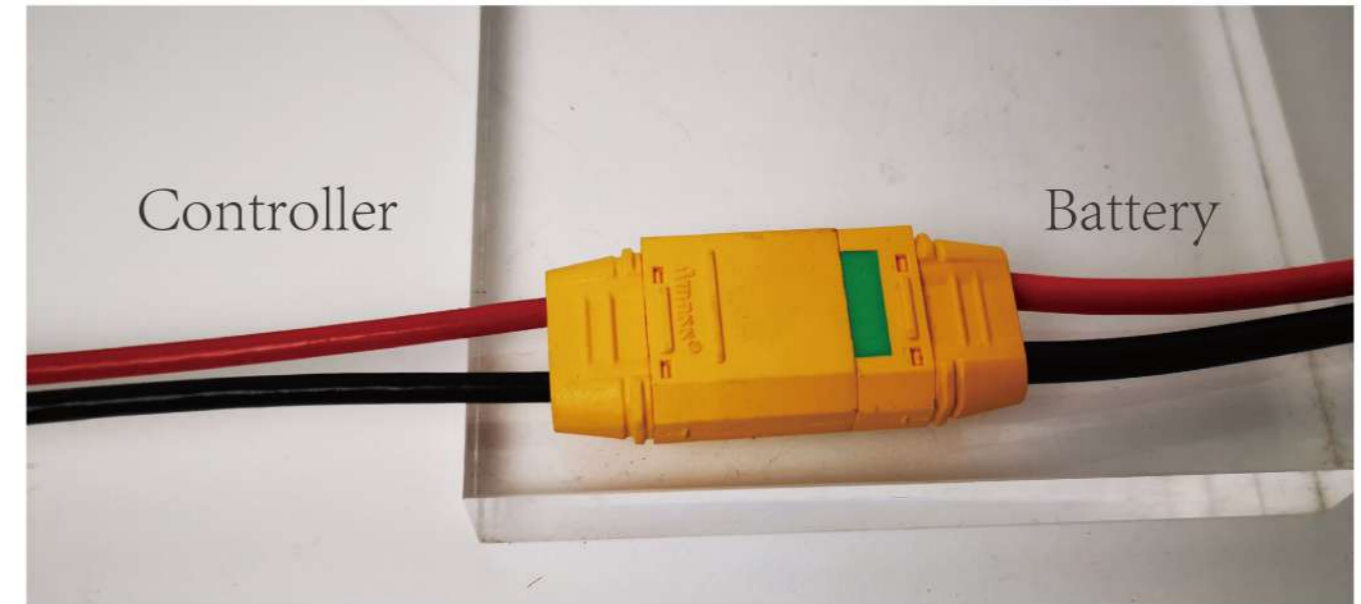
Please find suitable position to put controller on your ebike.do not put it in bag.



- A: Red/Black: Power Input/Power Supply (Yellow XT90 Connector)
- B: Blue/Green/Yellow: 3-Phase of Motor XT150
- C: Red/Black/Yellow/Green/Blue: 5-Hall Sensor of Motor
- D: Red/Blue/Black/Green/Yellow: LCD Control Panel
- E: Yellow/Black, Yellow/Black: Brake Levers
- F: Red/Pink: Electric Lock on Throttle
- G: Red/Black/Blue: Speed Control on Throttle
- H: Brown/Black/Yellow: PAS
- I: Red/White/Black: Speed Sensor
- J: Blue/Black: Cruise Function (connect to active Cruise Function,Close by set C7=0)
- K: Black/Yellow (Black Connector): Light Control (by LCD Control Panel)
- L: Black/Yellow (White Connector): Light Control (by separate switch)

Following pictures shows how to connect each parts to controller:

### 1) Wires connection for Power Input of Controller (Controller and Battery):

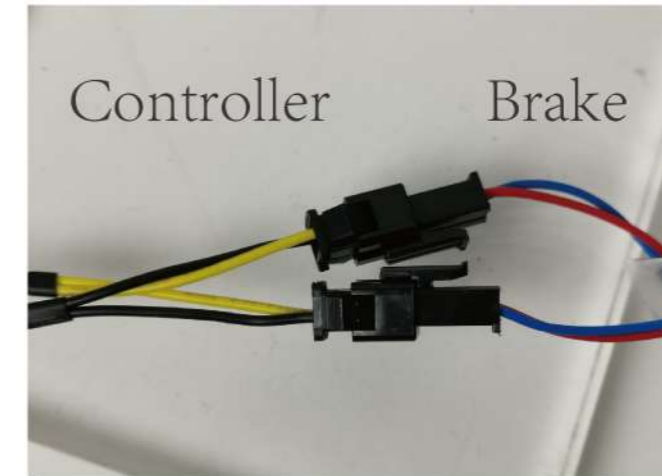
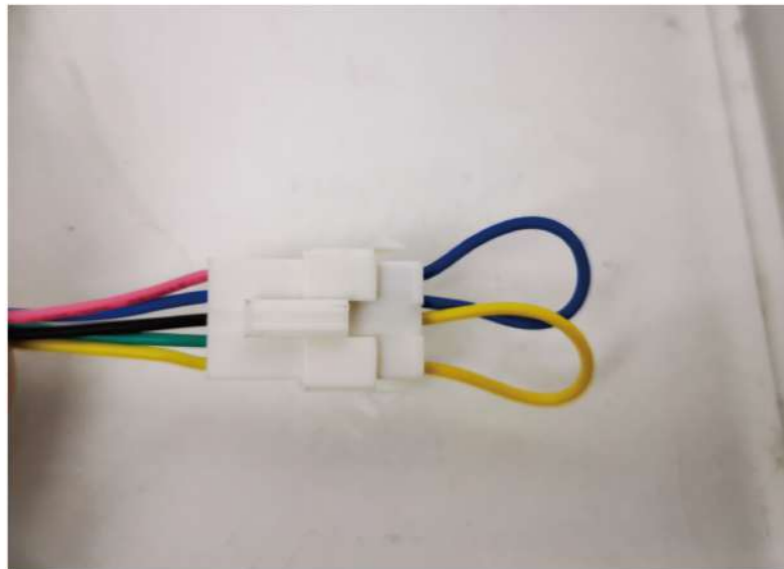




## 2) Wires connection for Controller and LCD Control Panel:

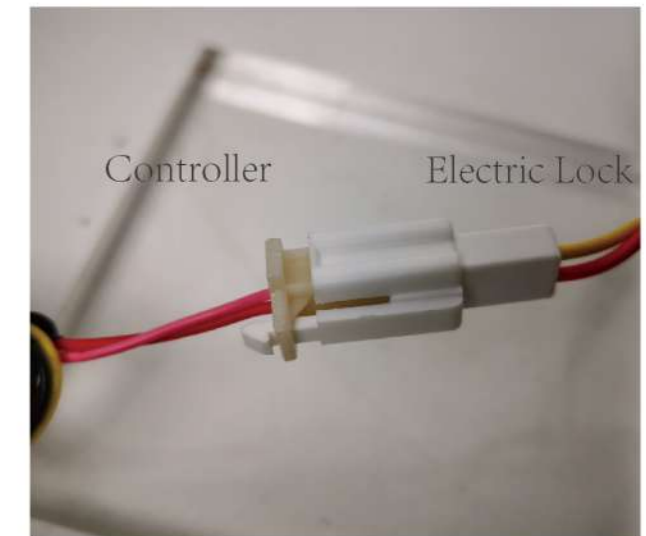


If you don't want to use LCD control Panel, please just shortcircuit connectors as follow photo (Red and Blue, Yellow and Black)

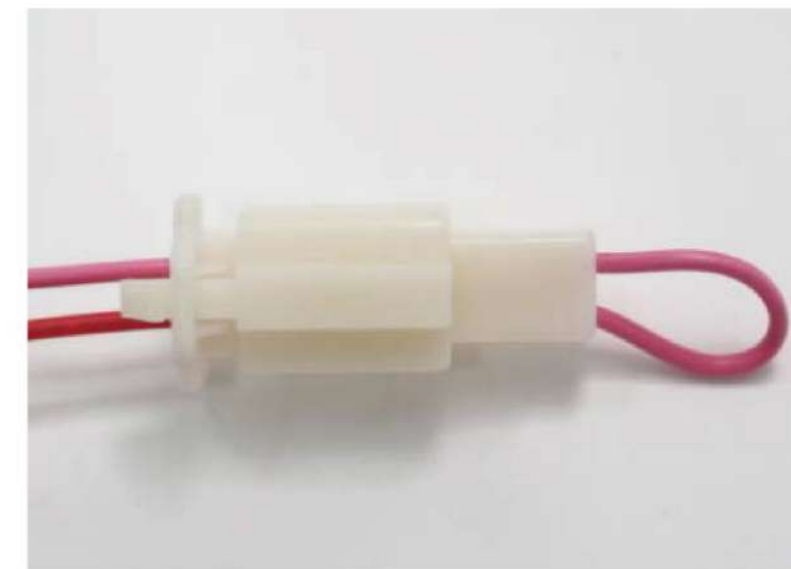


## 3) Wires connection for Controller and Throttle:

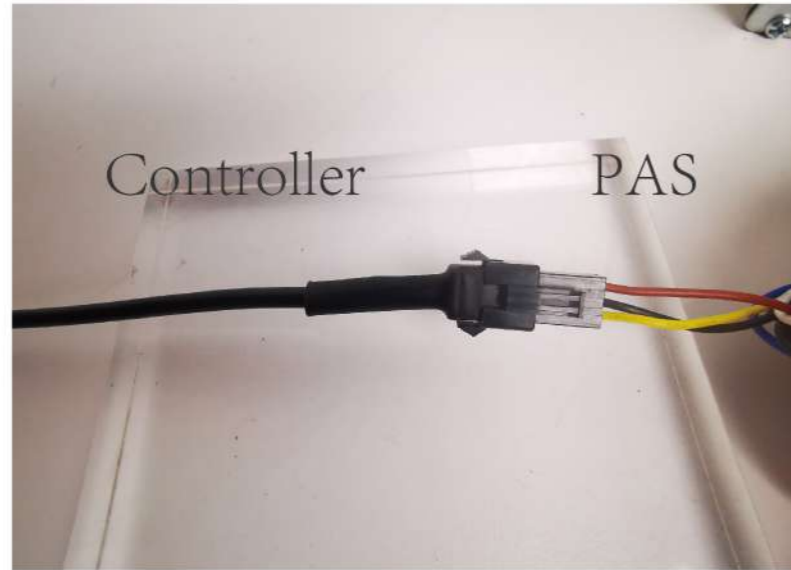
Red/Pink: Electric Lock  
Green/Black : Throttle



If Your Throttle Doesn't Have Electric Lock, Then Please Just Shortcircuit Controller Electric Lock Wires as Follow Photo

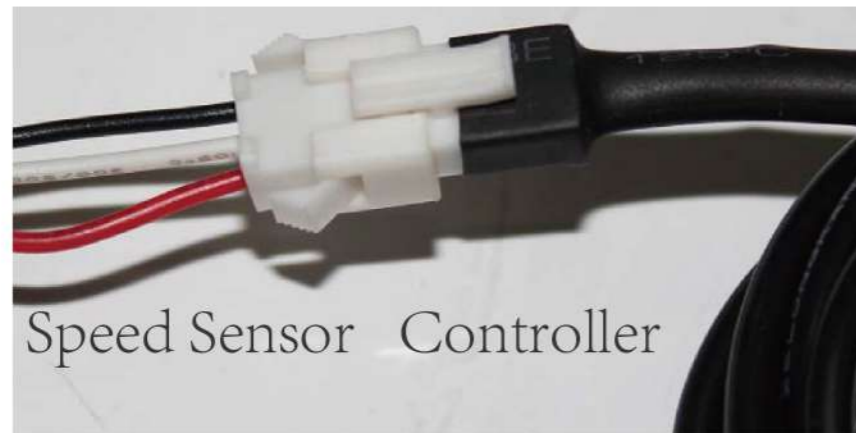


#### 4) Wires connection for Controller and PAS:



#### 5) Wires connection for Controller and Speed Sensor

Note: Speed Sensor embedded in Motor



#### 6) eBike Light Control :

Black/Yellow (Black Connector): 36V or 48V Light Control (by LCD Control Panel)

Black/Red (White Connector): 36V or 48V Light Control (by separate switch)



## Part 9 : Before Test Riding

### Checking List

Turn off the battery first

- 1) Wheel is secured in place.
- 2) Back wheel is vertically aligned with front wheel.
- 3) Wheel has no loose parts.
- 4) All components on the handlebar have been secured tightly.
- 5) The position for throttles and brake levers etc. is comfortable.
- 6) The steering bar can rotate freely.
- 7) The brakes work properly.
- 8) Make sure that the battery poles are correctly connected.



## Speed & Mileages

65 kmh 40 mph	52 V 12.8 Ah	48 V 1500 W	Electric Mode 27 km 17 miles	Pedal Assisted 54 km 34 miles	 <b>48V 1500W+52V 12.8Ah</b>
65 kmh 40 mph	52 V 17 Ah	48 V 1500 W	Electric Mode 38 km 24 miles	Pedal Assisted 76 km 48 miles	 <b>48V 1500W+52V 17Ah</b>
65 kmh 40 mph	52 V 20 Ah	48 V 1500 W	Electric Mode 45 km 28 miles	Pedal Assisted 90 km 56 miles	 <b>48V 1500W+52V 20Ah</b>
65 kmh 40 mph	52 V 30 Ah	48 V 1500 W	Electric Mode 68 km 42 miles	Pedal Assisted 136 km 84 miles	 <b>48V 1500W+52V 30Ah</b>

Above Calculation is in Theory. Real Mileages Differs by Load , Road Situation, Temperature, Wind etc...

## Additional Notes

### Motor Orientation:

Different Series of Kits Have the Cable Coming Out on Different Sides. The Fool Proof Way to Orientate the Motor Correctly is to Make Sure That The Disk Brake Side of The Motor is on the Left. So When You're Sitting on The Bike, the Disk Brake Holes Should Always be Facing Towards the Left.

### Spoke adjustment:

The Spokes Used on The e-Bike Hubs are Very Heavy Duty. Because of The Rigidity of the Harder, Heavier Gauge Spokes, they May Have a Tendency to Come Loose More Often Than a Regular Bike Wheel Spokes. That Means that it's a Good Idea to Check the Spoke Tension After the First 50km and Then Every 100km or so.

### Vibration:

The Motor Hubs Can at Times be Under Quite a Lot of Load Which Can Result in Mild Vibrations When Accelerating or Going up an Incline. If There is a Loose Item Anywhere on the Bike, Quite Often that Can Exacerbate the Moderate Motor Vibration Into an Almighty Drone of a Vibration, Giving the Rider the Impression that the Bike is About to Come Apart. If this Happens to you, you Have to Look for Anything that Could be Loose. Sometimes it Might be an Unused Disk Brake Bolt or Even Something Loose on the Rear Rack of the Bike.

If There's Something Wrong With a Component on the Kit (Like a Motor) it Won't be that Subtle.

### Controller Mount Tips:

According to the principle as they use in Africa and India. One customer make great improvement on ebike. Using the Venturi effect of airflow to increase airflow therefore decrease in pressure which lowers the ambient temperature. if you are engineer ,also can try to make cooling system for controller .

Pasion eBike

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Lithium Battery Pack  
User Manual



## Contents

(1). Common Concerns	Page 1
(2). Battery Details	Page 2
(3). Safety Precaution	Page 5
(4). Parameters of Battery	Page 8
(5). Storage and Maintenance	Page 10
(6). How to choose Battery Tips	Page 11
(7). General Usage Summary	Page 12

# Common Concerns

## 1. How to charge battery?

- (1). Before You Charge, Please Kindly Check Whether Charger is Compatible with Your Battery: 48V Li-ion Battery use 54.6V Charger.
- (2). If You use 5A Fast Charger, Please Kindly Check Your Country Voltage Input Mode and Select Correct Voltage: 110V or 220V.
- (3). 52V 12.8ah Battery with 2A Charger, 52v 17ah with 2A or 3A Charger, 52v 20ah or 30ah with 4A or 5A Charger.



110V: for 100-120V Countries



220V : for 220-240V Countries

If you use 2A Standard Charger, it is Universal 100-240V, You Don't Need to Select.

- (1). Connect Charger to Battery.
- (2). Connect Charger to Indoor Power.
- (3). When Battery is Full, Disconnect Charger to Indoor Power and then Disconnect Charger to Battery.

## 2. How Long do I Need to Charge Battery to Full?

With Our 5A Charger, From Empty to Full Need About  $= (\text{Your Battery Capacity}) / (\text{Charging Current}) \times 1.3 \text{ Hours}$ . When Charger Indicating Light Turn to Green, Please Still Keep it About 2 Hours for Trickle-Charge.

## 3. When Battery is Fully Charged, do I Need to Disconnect Charger?

Yes. This is Better to Keep Security. Please Disconnect and Don't Always Plug Charger When it is Fully Charged.

## 4. How to Install Battery on Your Bike?

Firstly Please Try the Installation Position of the Bottom Sliding Plate on Your Rear Carrier to Find the Best Place. Fix the Plate, Slide Battery in, Lock it on Plate and Plug Anderson Power Supply Cable, Turn the Key to "ON" Position, Now Battery is Already Power-on. If You Turn the Key to "OFF", the Battery is Locked and Power-off, If You Turn the Key to "Unlock", the Battery is Unlocked, You Can Take it Away.

## 5. Important Notice:

- Do not use or Charge the Battery Under High Temperature.
- Do not Short-Circuit the Positive (+) and Negative (-) Terminals of the Battery.
- Do not Immerse the Battery Into Water and Acidity Liquids, or Allow it to Get Wet.

The Battery Should be Sorted in a Clean, Dry Circumstance and Charged 2h by the Charger Every two Months When not Used for Long Time.  
Please Charge the Battery by Using the Special Charger.  
Do Not Let the Battery Near Fire.  
Do Not Disassemble the Battery.  
The Battery Pack Should be Charged for One Time Every 3 Months While Storing.

## 1. Packing List:

Battery Connector: XT90S.



## 2. Charging Port and Discharge Port:



Charging Port



Discharge Port

## 3. Power Gauge:



Press Button 2 Seconds, Power Gauge Will be Turned on, After About 5 Seconds, Power Gauge Will be Turn off Automatically.

## 4. Battery Lock:



Battery Connect with Bracket, If Lock It, will Hard to Remove from Frame.

## 5. Global Warranty Code:



All Pasion eBike Battery is Backed up with Ping An Global Insurance up to 2 Million.



## Safety Precaution

Please Comply with all Warnings and Operating Instructions in this Manual Strictly. Save this Manual Properly and Read Carefully the Following Instructions Before Installing the Unit. Do not Operate this Unit Before Reading Through all Safety Information and Operating Instructions Carefully.

### 1. When in use

#### High Voltage:

Beware of High Voltage Power Supply. If wet or Conductive Material Meets a High Voltage Power Supply, Directly or Indirectly, it can Result in an Electric Shock that can be Fatal.

#### Use Correct Tools:

When Working with High Voltage and AC Power, be Sure that the Correct Tools are Used.

#### Static-Free:

Static Electricity Would Damage Veneer on the Electrostatic Sensitive Components. Before Touching the Plug, Isolate, Circuit Board or Chips, be Sure to use Correct Electrostatic Prevention Measures.

#### Disconnect the Power Supply in Operation:

While Operating the Power Supply, You Must First Cut Off Power Supply, Power Operation is Prohibited.



## Safety Precaution

### DC Short Circuit Dangerous:

Power System Provides dc Regulated Power Supply. DC Short Circuit Could Cause Fatal Damage to the Equipment.

### 2. While Charging

#### CAUTION:

The Temperature Range Over Which the Battery can be Charged is 0°C to 45°C. Charging the Battery at Temperatures Outside of this Range May Cause the Battery to Become Hot or to Break. Charging the Battery Outside of this Temperature Range May Also Harm the Performance of the Battery or Reduce the Battery's Life Expectancy.

### 3. When Discharging the Battery

#### DANGER:

Do not Discharge the Battery using any Device Except for the Specified Device. When the Battery is Used in Devices Aside From the Specified Device it may Damage the Performance of the Battery or Reduce its Life Expectancy, and if the Device Causes an Abnormal Current to Flow, it May Cause the Battery to Become hot and Cause Serious Injury.

#### CAUTION:

The Temperature Range over Which the Battery can be Discharged is -20°C to 60°C. Use of the Battery Outside of this Temperature Range may Damage the Performance of the Battery or may Reduce its Life Expectancy.

# Parameters of Battery

## 52V 12.8AH Hailong Battery Cell:

The Panasonic NCR Series is the Most Important Line of Lithium-ion Batteries.

The NCR18650A was the First Really High-Capacity Lithium-ion Battery in the Marketplace, Which is the Key Metric Driving Demand of Electric Vehicles.

The Panasonic 18650 B is the Battery Powering the Current Generation of Tesla Model S and as Such Receives Good Attention.

### Nominal Specifications:

Battery Classification	Lithium Ion Battery
Product Code	(TBD)
Model Name	NCR18650B-H0JTA
Cell Type	NCR18650BD

Item	Specifications	Notes
Rated Capacity	3000 mAh	0.606A discharge at 20°C
Capacity (Minimum)	3030 mAh	0.606A discharge at 25°C
Capacity (Typical)	3180 mAh	Reference only
Nominal Voltage	3.6 V	0.606A discharge
Discharging End Voltage	2.5 V <sup>*1</sup>	
Charging Current (Std.)	0.909 A	
Charging Voltage <sup>*1</sup>	4.20 ± 0.03 V <sup>*2</sup>	
Charging Time (Std.)	5.0 hours	
Continuous Discharge Current (Max.)	10 A <sup>*3</sup>	0 ~ +40°C
Internal Resistance	less than 35 mΩ	AC impedance 1 kHz
Weight	less than 49.5 g	
Operating Temperature	Charge	10 ~ +45°C
	Discharge	-20 ~ +60°C
Storage Conditions (Shipping Charge State)	less than 1 month	-20 ~ +50°C
	less than 3 months	-20 ~ + 40°C
	less than 1 year	-20 ~ + 20°C

Recoverable Capacity:  
80%<sup>\*4</sup>

## 52V 17AH Polly Battery Cell /52v 30ah Triangle Battery

The Samsung 35E is a Popular Lithium-ion Cell. It is Intended For Use in High Capacity 18650 Battery Packs. It Can Power a Wide Range of Devices Including a Portable Currency Detector, Cordless Carpet Vacuum Cleaner or Flashlight. Samsung 18650 Batteries are Highly Regarded For Performance and Safety.

### Nominal Specifications

Manufacturer	Samsung SDI
Model	INR18650-35E(35E)
Nominal Capacity	3500mAh

Item	Specification
Standard discharge Capacity	Min 3,350mAh - Charge : 0.5C(1,700mA), 4.2V, 0.02C(68mA) cut-off - Discharge : 0.2C(680mA), 2.65V cut-off *1C=3,400mA
Charging Voltage	4.2V
Nominal Voltage	3.60V
Charging Method	CC-CV (constant voltage with limited current)
Charging Current	Standard charge: 1,700mA For cycle life : 1,500mA
Charging Time	Standard charge: 4hours
Max. Charge Current	2,000mA (not for cycle life)
Max. Discharge Current	8,000mA (for continuous discharge) 13,000mA (not for continuous discharge)
Discharge Cut-off Voltage	2.65V
Cell Weight	50 g max



# Storage and Maintenance

## 52v 20ah Triangle Battery

The Samsung 29E is a Popular Lithium-ion Cell. It is Intended For Use in High Capacity 18650 Battery Packs. It Can Power a Wide Range of Devices Including a Portable Currency Detector, Cordless Carpet Vacuum Cleaner or Flashlight. Samsung 18650 Batteries are Highly Regarded For Performance and Safety.

### Nominal Specifications

Manufacturer	Samsung SDI
Model	INR18650-29E(29E)
Nominal Capacity	2900mAh

Item	Specification
Nominal Capacity	2,850mAh (0.2C, 2.50V discharge)
Typical Capacity	2,850mAh (0.2C, 2.50V discharge)
Minimum Capacity	2,750mAh (0.2C, 2.50V discharge)
Charging Voltage	4.20 ± 0.05 V
Nominal Voltage	3.65V (0.2C discharge)
Charging Method	CC-CV (constant voltage with limited current)
Charging Current	Standard charge: 1,375mA
Charging Time	Standard charge: 3hours
Max. Charge Current	2,750mA (not for cycle life)
Max. Discharge Current	2,750mAh (continuous discharge) 8,250mAh (not for continuous discharge)
Discharge Cut-off Voltage	2.50V
Cell Weight (max. (g))	45g

### Storage

Before Storing, Charge the Battery at Least 7 Hours. Store the Battery Covered and Upright in a Cool, Dry Location. Recommend Long-term Storage Temperature is 15°C -25°C. During Storage, Recharge the Battery in Accordance with the Following Table:

Storage Temperature	Recharge Frequency	Charging Duration
0°C - 40°C	Every 3 months	1-2 hours



### Maintenance

- 1.The Battery System Operates with Hazardous Voltages. Repairs may be Carried out Only by Qualified Maintenance Personnel.
- 2.Even After the Unit is Disconnected From the Mains, Components Inside are Still Connected to the Battery Cells Which are Potentially Dangerous.
- 3.Before Carrying out any Kind of Service and/or Maintenance, Disconnect the Batteries and Verify that no Current is Present, and no Hazardous Voltage Exists in the Terminals.
- 4.Only Persons are Adequately Familiar with Batteries and with the Required Precautionary Measures may Replace Batteries and Supervise Operations. Unauthorized Persons Must be Kept well Away From the Batteries.
- 5.Verify that no Voltage Between the Battery Terminals and the Ground is Present Before Maintenance or Repair. In this Product, the Battery Circuit is not Isolated From the Input Voltage. Hazardous Voltages may Occur Between the Battery Terminals and the Ground.
- 6.Batteries may Cause Electric Shock and Have a High Short-circuit Current. Please Remove all Wristwatches, Rings and other Metal Personal Objects Before Maintenance or Repair, and Only use Tools with Insulated Grips and Handles for Maintaining or Repairing.
- 7.When Replace the Batteries, Install the Same Number and Same Type of Batteries.
- 8.When Replace the Parallel Batteries, Make Sure the new Battery is Full Charged.
- 9.Do not Open or Destroy Batteries. Escaping Electrolyte Can Cause Injury to the Skin and Eyes. It May be Toxic.
- 10.Please Replace the Fuse Only with the Same Type and Amperage in Order to Avoid Fire Hazards.
- 11.Do not Disassemble the Battery System.

## How to choose Battery Tips

**When You are Considering to Get Yourself a Good Battery, Make Sure You Get One that Has High Quality Cells Such as Panasonic, Samsung or LG**

**It's Best to Buy From a Reputable Vendor When it Comes to Battery and Choose one that Comes with at Least a 3amp Charger (5A is Better) and a Warranty (Global Insurance)**



## General Usage Summary

Pasion eBike Recommend you First Ride the Bike Without Using any Electrical Assistance to Familiarize Yourself with Themechanical Gearing and Braking System of Your Bolt.

