

# EVT SCOOTER RANGE



the smart solution to urban transport

## GENERAL FEATURES

### 1. Direct Driven Rim Motor:

- The EVT direct driving hub motor is the first to be introduced in the market.
- It has as high as a 95% efficiency and as low as 14.7wh/km power consumption.
- Compared to regular electric motors, its transmission loss is less, and it gives a strong even torque in both high and low rotating speeds.

### 2. Digitalized Intelligence Controller System:

- **Overheating Protection:** When the system temperature reaches the upper limit, the system will supply half the power or shut down.
- **Over Current Protection:** The current is monitored by the controller to prevent the motor overloading.
- **Battery Energy Management:** When the battery energy approaches its lower limit, with about 10% energy left, an interrupted warning will sound and half power will be supplied to the motor. If driving continues on half power, a continuous warning will sound and then the power will shut down.
- **Power (P), Economic (E) dual driving modes:** Different driving modes that can be selected by the driver for bursts in speed, hill climbs, and conservation of battery power.
- **Power Shut Off when Braking:** This is to prevent accelerating whilst braking. This feature saves battery energy and also prevent the motor from overheating.



FRONT & REAR DISK BRAKES

### 3. Disk Brakes on Front and Rear:

Double the brake function. Increases safety while driving.

### 4. Removable Charger:

The charger can be placed outside the scooter for recharging. This reduces the weight of the scooter and increases charger efficiency.

### 5. Removable Batteries:

- This allows quick replacement of batteries when on the road.
- Easily allows installation of new technologies or different battery types in the future.

### 6. Adjustable Dual Loop Hydraulic Shock Absorber:

More comfortable driving feeling.

### 7. LED Display Energy Status:

Precisely shows the battery energy status.

### 8. Brake cut-off feature:

Once brake is used battery power is cut to the motor. This increases safety and battery efficiency

### 9. No Transmission mechanism noise:

There is no belt, chain or gear noise, this decreases noise pollution.

## COLOURS

- Silver
- Light Blue
- Red



## EVT 4000E SPECIFICATIONS

### Riding Range:

40-50km (ECE-47 TEST Standard)

### Climbing:

14.2 Degrees

### Motor Type:

48V BRUSHED, MAX, H.P. 3.06 Hp, 755 rpm

### Controller:

PWM

### Max Speed:

45-55 Km/Hr

### Charging Time:

4-6 Hrs.

### Battery Type:

Lead Acid, 12V x 50Ah x 4

### Brakes:

Front Disk & Rear Disk

### Lamps:

Front (Hi-Low) Hi 18W x 2Low 18W x 2, Plate 5W, Brake 21W, Winker 10W x 4

### Dimension:

L x W x H - 170 x 63 x 99

### Axle Length:

126 cm

### Total Weight:

125 kg

### Optional Accessories Available Include:

Windshield and Carrier box

## COLOURS



**Purple & White**

**Metallic Black**



## EVT 168 SPECIFICATIONS

### Riding Range:

40-50km (ECE-47 TEST Standard)

### Climbing:

14.2 Degrees

### Motor Type:

48V BRUSHED, MAX,  
H.P. 3.06 Hp, 755 rpm

### Controller:

PWM

### Max Speed:

45-55 Km/Hr

### Charging Time:

4-6 Hrs.

### Battery Type:

Lead Acid, 12V x 50Ah x 4

### Brakes:

Front Drum & Rear Disk

### Lamps:

Front (Hi/Low 12V/35W)  
Plate 12V/5W,  
Brake 12V/21W, Indicator 12V/10W x 4

### Dimension:

L x W x H - 165 x 74 x 121cm

### Axle Length:

121 cm

### Total Weight:

128 kg

### Optional Accessories Available Include:

Windshield & Carrier box

## FREQUENTLY ASKED QUESTIONS

### 01. How far can the electric scooter go while in the fully charged position?

Usually it can be ridden for about 50 km. But it may have different driving performance according to the drivers' habits of speed acceleration and loading weight.

### 02. Would it be out of energy on the road? How to deal with this situation?

The warning beep will sound together with the LED yellow light on in the low energy level (only 5 - 8 km distance energy left). It means it's the time to charge the battery. As the battery energy reduces, the driver can feel that the acceleration and extreme speeding will be decreased as well.

### 03. What is the climbing ability?

10.0 km/hr @ 14 slope / 1p  
24.5 km/hr @ 8° slope / 1p

### 04. Is it uncomfortable to ride?

According to the drivers' experiences, riding on electric scooter is more comfortable than riding on petrol-powered scooter.

### 05. Does the electric scooter need to be warmed up?

No. The driver just needs to turn on the main switch then go.

### 06. Does the driver need helmet while driving?

Yes. The driver needs to wear the helmet, just like the rule for regular scooter use.

### 07. Is the electric scooter easy to maintain?

YES. EVT electric scooter is designed for the purpose of easy and low maintenance. Because lack of petrol-powered scooter's system such as engine, transmission, transaxle, carburetor, ignition plug, gasoline/lubricant container make EVT scooter easy and low maintained.

The unique design of direct driven system makes EVT scooter much easier to maintain compared

with the other electric scooters do. All the components are modular design; therefore, maintenance is not only easy, but also convenient (because the regular scooter dealer can do most of the maintenance).

The regular expendables like tires, bulbs, etc can be found in the regular scooter store. Besides that, EVT company provides one year warranty for all the components except battery and expendables.

### 08. Are there any dangers while washing the electric scooter?

NO. Due to its DC current source and 48V system design, there is no danger when the scooter is wet. But the user should be advised not pouring the water directly to the charger outlet, controller and internal battery set while cleaning.

### 09. Is it easy to recharge the battery?

YES. The users just need to insert the input plug into the wall outlet of AC 230V. This will start to recharge the batteries.

### 10. What is the battery's cycle life?

300-500 cycles, depending on the users' operation. The battery's cycle life will reduce or damage if insufficient charge status is retained for a long period of time. Normally the battery can last about 1.5-2 year.

### 11. How to know the battery status and conditions?

The display panel has a row for LED lights which indicate the amount of power available.

- A. Full energy: First green light on
- B. 50% energy left: Second green light on
- C. 10% energy left: Yellow light on and warning beep sound (Charging recommend)
- Reached lowest safety limit: Red light on (Charging immediately)

HOW FAR  
CAN THE  
ELECTRIC  
SCOOTER  
GO?

## FREQUENTLY ASKED QUESTIONS

### 12. If one of the batteries is dead, do I need to change them all?

Not necessary. Ask your dealer to check the battery condition, and then replace the dead batteries.

### 13. Is there any possibilities that user will get burnt while riding on the scooter?

NOT A CHANCE! Because electric scooter does not have an exhaust pipe, the user won't get burnt while riding on the scooter.

### 14. What are the advantages of electric scooters?

No pollution, no noise, smooth running, easy operation, low maintenance and low cost of energy usage.

### 15. What kind of people are suitable for the electric scooter?

People who will not ride more than 40 -50 km are much more suitable riding electric scooter to their destinations, such as employees, housewives, students, guards, etc.

### 16. What is the warranty policy?

EVT company provides one year warranty with no mileage

limit (except expendables). Standard battery warranty is six months.

### 17. What is the P/E mode for?

Power (P)/Economic (E) dual driving modes: Selectable by the user when driving on different road situations. Using power driving mode shall consume more power and reduce the driving range.

### 18. Can you use an EVT electric scooter on a rainy day?

Yes. EVT electric scooters are fully insulated and as a result do not have a problem with short circuits.

### 19. What are the advantages of "Direct Driven Hub Motor" ?

- A. No noise
- B. Less transmission loss
- C. Less weight
- D. Low maintenance expense
- E. Reduce manufacture costs
- F. No need to be equipped with chains, belts or gears

# WHAT'S THE ADVANTAGE OF AN ELECTRIC SCOOTER?

## LICENSE, TAXATION & INSURANCE

### Motorcycle License:

The EVT Scooter models: EVT-4000e and EVT-168, are both covered by the M License category. The M License is a license for vehicles of 50cc or under. The M License is not needed if the person who purchases an EVT Scooter already possesses a category B License, A License or A1 License.

### Taxation:

EVT Scooter's Annual Road Tax is €31, and €2.70 for arrears. This is a special price electric scooters obtain in the Motor Tax Office.

### Insurance:

The current EVT scooter model; EVT 4000e is under the 'category one' insurance barcket. This is the cheapest insurance category for scooters. The price of insurance varies by age, sex, and claims history. A customer can receive a quotation from any AXA Insurance Call-Centre.

- *EVT 168 is eligible for reduced insurance rate due to it being single-seater.*

*All information provided is subject to change at any time by the relevant authorities.*





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