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## ONESPORT OT05 Pro

# ONESPORT OT05 Pro Electric Bicycle Instruction Manual

Model: **OT05 Pro** | Brand: **ONESPORT**

## 1. INTRODUCTION AND OVERVIEW

Welcome to the ONESPORT OT05 Pro Electric Bicycle user manual. This manual provides essential information for the safe assembly, operation, and maintenance of your new electric bicycle. The ONESPORT OT05 Pro is a 27.5-inch electric mountain bike designed for both men and women, featuring a 36V 22.5Ah battery for extended range, a 250W motor, torque sensor, and hydraulic brakes for a comfortable and secure riding experience.



Figure 1.1: The ONESPORT OT05 Pro Electric Bicycle, showcasing its design and integrated components.

## 2. SAFETY INFORMATION

Your safety is paramount. Please read and understand all safety warnings and instructions before operating the ONESPORT OT05 Pro Electric Bicycle. Failure to do so may result in serious injury or damage to the bicycle.

- Always wear a helmet that meets safety standards when riding.
- Ensure all components, especially brakes, tires, and lights, are in good working order before each ride.
- Familiarize yourself with local traffic laws and regulations regarding electric bicycles.
- Do not ride under the influence of alcohol or drugs.
- Adjust the seat height correctly for comfortable and safe pedaling.
- Be aware of your surroundings and anticipate potential hazards.
- Avoid riding in adverse weather conditions, such as heavy rain or snow, which can reduce visibility and traction.
- Do not modify the bicycle's electrical system or motor.
- Keep hands and feet clear of moving parts, especially the chain and wheels.

### 3. COMPONENTS OVERVIEW

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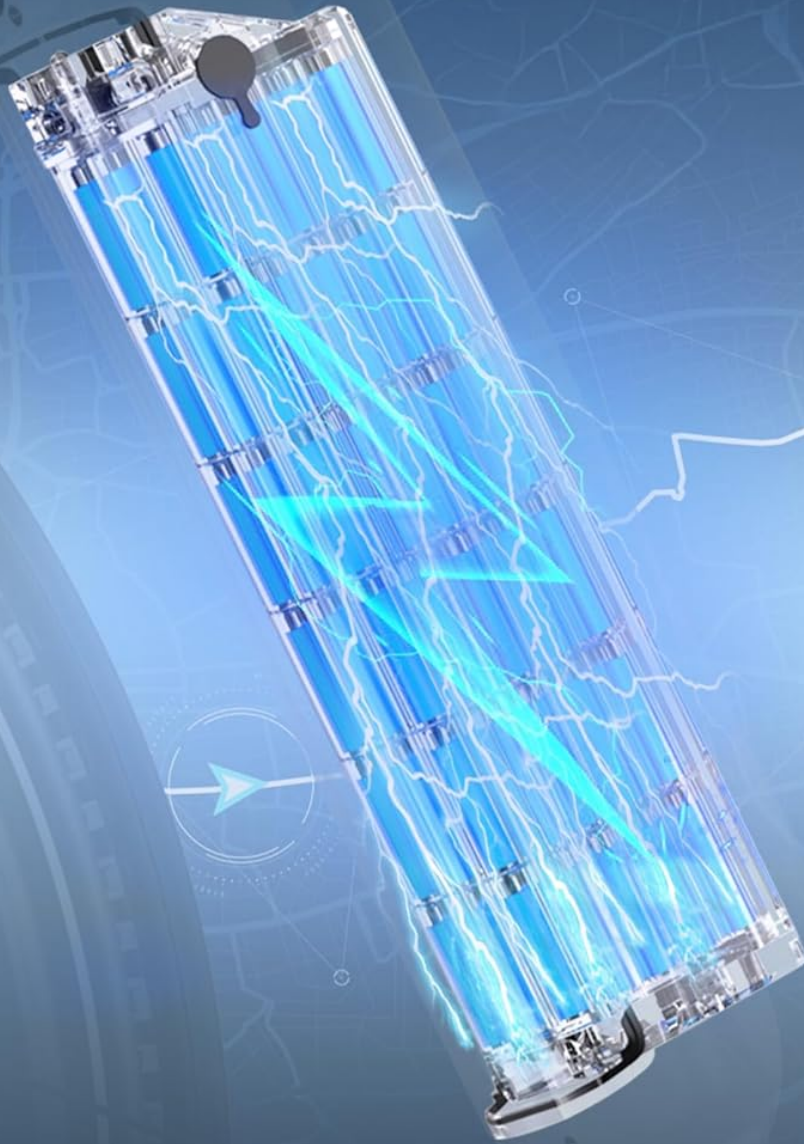
The ONESPORT OT05 Pro is equipped with high-quality components designed for performance and durability.

#### 3.1. Battery System

The bicycle features a powerful 36V 22.5Ah Lithium-Ion battery, providing an assisted riding range of up to 140 km on a single charge. The battery is integrated into the frame for a sleek design and protection.

# 36V 22.5AH LITHIUM-ION BATTERY

Which provides over 130-140km of assisted riding on a single charge



**42V 3A**  
Charger Input



**36V 22.5Ah**  
21700 Lithiumion Power Battery



**6-8 Hours**  
Charging time

Figure 3.1: Illustration of the integrated 36V 22.5Ah Lithium-Ion battery, highlighting its capacity and charging specifications.

## 3.2. Motor

A 36V 250W high-speed brushless motor provides reliable and efficient power, compliant with European standards. It is designed to assist with inclines up to 30 degrees.



# 36V 250W HIGH SPEED BRUSHLESS MOTOR

Experience a higher level of riding and take your riding performance to new heights.



Figure 3.2: Detailed view of the 250W brushless motor and its integration with the rear wheel, showing maximum speed, torque, and climb angle capabilities.

### 3.3. Torque Sensor and Suspension

The intelligent torque sensor ensures a smooth and intuitive pedaling experience by providing assistance proportional to your pedaling effort. The front suspension fork reduces bumps and vibrations, enhancing ride comfort.

## TORQUE SENSOR

Breaking the traditional riding experience strong power for easy climbing



## FRONT SUSPENSION FORK

Reduce bumps and vibrations during your ride providing a smoother and more comfortable riding experience



Figure 3.3: Visual representation of the torque sensor integrated into the pedal crank and the front suspension fork, illustrating their functions.

### 3.4. Hydraulic Disc Brakes

Equipped with 180mm hydraulic disc brakes, the OT05 Pro offers powerful and progressive stopping power, even in wet conditions. The automatic motor cut-off feature enhances safety during braking.



# Front and Rear Disc Brakes

Dual hydraulic braking system for enhanced riding safety

## FRONT BRAKE

*Fast and responsive braking on downhill or high-speed rides, giving you full control.*



## REAR BRAKE

*Rear brake helps prevent skidding and tipping during sudden stops, keeping your ride stable and safe.*



Figure 3.4: Close-up view of the front and rear hydraulic disc brake systems, emphasizing their role in providing maximum safety and control.

### 3.5. Display and App Connectivity

The high-definition display provides real-time information such as speed, battery level, and mileage. Bluetooth connectivity allows you to connect to a dedicated app for additional controls and data tracking.

# Instruments and Controllers

APP Bluetooth Connection for Electric Bicycle



Figure 3.5: The bicycle's HD display showing key metrics and a smartphone screen demonstrating the companion app's interface for monitoring and control.

## 4. SETUP AND ASSEMBLY

The ONESPORT OT05 Pro Electric Bicycle requires some assembly upon arrival. While a complete assembly manual is not



provided in this document, the bike comes with a comprehensive tool kit to assist with the process. It is recommended that assembly be performed by an individual with basic bicycle mechanical knowledge or by a professional.

## 4.1. Unpacking

- Carefully remove the bicycle and all components from the packaging.
- Check for any visible damage during transit. Report any damage immediately to the retailer.
- Verify all parts listed in the packing list are present.

## 4.2. Basic Assembly Steps (General Guidance)

1. **Handlebar Installation:** Attach the handlebar to the stem, ensuring it is centered and tightened securely.
2. **Front Wheel Installation:** Install the front wheel, ensuring the quick-release skewer or axle nuts are properly secured and the wheel is centered in the fork.
3. **Pedal Installation:** Identify the left (L) and right (R) pedals. Thread them carefully into the crank arms (left pedal is reverse-threaded) and tighten firmly.
4. **Seat Post and Saddle:** Insert the seat post into the frame and adjust the saddle height for comfortable riding. Ensure the quick-release clamp is securely fastened.
5. **Accessory Attachment:** Attach any included accessories such as reflectors, lights, or the rear rack if not pre-installed.
6. **Pre-Ride Check:** Before your first ride, double-check all bolts and quick releases for tightness. Ensure brakes are functioning correctly and tires are inflated to the recommended pressure.

## 5. OPERATING INSTRUCTIONS

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Operating your ONESPORT OT05 Pro Electric Bicycle is intuitive, but understanding its features will enhance your riding experience.

### 5.1. Powering On/Off

- To turn on the bicycle, press and hold the power button on the display unit for a few seconds.
- To turn off, press and hold the power button again until the display shuts down.

### 5.2. Pedal Assist System (PAS)

- The OT05 Pro uses a torque sensor, meaning the motor provides assistance based on how hard you pedal.
- Use the '+' and '-' buttons on the control panel to adjust the level of pedal assistance. Higher levels provide more motor power.
- The display will show the current assist level.

### 5.3. Gear Shifting

The bicycle is equipped with a 7-speed transmission system. Use the gear shifter on the handlebar to change gears according to terrain and desired pedaling effort. Shift gears smoothly to avoid strain on the drivetrain.

### 5.4. Braking

Apply both front and rear brakes simultaneously for effective and controlled stopping. The hydraulic disc brakes offer strong stopping power. The motor will automatically cut off when brake levers are engaged.

### 5.5. Using the App

Download the ONESPORT companion app from your smartphone's app store. Enable Bluetooth on your phone and follow the app's instructions to pair with your bicycle. The app allows you to view detailed ride statistics, adjust settings, and potentially update firmware.

## 6. CHARGING THE BATTERY

Proper battery charging procedures are crucial for battery longevity and safety.

- Ensure the bicycle is turned off before charging.
- Locate the charging port on the bicycle frame.
- Connect the charger (Input: 42V 3A) to the charging port, then plug the charger into a standard wall outlet.
- The charging indicator on the charger will typically show red during charging and turn green when fully charged.
- A full charge takes approximately 6-8 hours.
- Do not overcharge the battery. Disconnect the charger once charging is complete.
- Charge the battery in a dry, well-ventilated area, away from flammable materials.
- Do not use a charger other than the one provided by ONESPORT.

## 7. MAINTENANCE

Regular maintenance will ensure the optimal performance and lifespan of your ONESPORT OT05 Pro Electric Bicycle.

### 7.1. Routine Checks (Before Each Ride)

- **Tires:** Check tire pressure and inspect for wear or damage.
- **Brakes:** Test front and rear brakes for proper function and responsiveness.
- **Bolts & Fasteners:** Ensure all critical bolts (handlebars, seat post, wheels) are tight.
- **Battery:** Check battery level and ensure it is securely seated.

### 7.2. Periodic Maintenance

- **Chain:** Clean and lubricate the chain regularly (every 100-200 km or as needed).
- **Brake Pads:** Inspect brake pads for wear and replace them when necessary.
- **Gears:** Check gear shifting for smoothness and adjust if needed.
- **Cleaning:** Clean the bicycle with a damp cloth. Avoid high-pressure washing directly on electrical components.
- **Battery Storage:** If storing the bike for an extended period, charge the battery to 50-70% and store in a cool, dry place. Recharge every 1-2 months to prevent deep discharge.

## 8. TROUBLESHOOTING

This section addresses common issues you might encounter with your ONESPORT OT05 Pro Electric Bicycle.

Problem	Possible Cause	Solution
Bike does not power on.	Battery is dead or not properly seated. Loose electrical connection.	Charge the battery. Ensure the battery is fully inserted and locked. Check all visible cable connections.
Motor not providing assistance.	Low battery. Assist level set to zero. Brake levers engaged. Sensor issue.	Charge battery. Increase assist level on display. Release brake levers. Check for error codes on display.
Brakes feel weak or spongy.	Worn brake pads. Air in hydraulic lines.	Inspect and replace brake pads. Have a professional bleed the hydraulic brake system.

Problem	Possible Cause	Solution
Gears are skipping or not shifting smoothly.	Derailleur misalignment. Worn chain or cassette.	Adjust derailleur. Inspect and replace worn drivetrain components.

For issues not listed here or if solutions do not resolve the problem, please contact ONESPORT customer support.

## 9. SPECIFICATIONS

Detailed technical specifications for the ONESPORT OT05 Pro Electric Bicycle.

**Model Number:** OT05 Pro

**Recommended Age:** Adults

**Bicycle Type:** Mountain bike

**Brake Type:** Hydraulic Disc

**Color:** White

**Dimensions:** 190\*67\*115cm

**Frame Size:** 27.5 inches

**Material:** Aluminum

**Number of Speeds:** 7

**Power Source:** Electric

**Usage Type:** Gravel, Road

**Suspension Type:** Front Suspension

**Wheel Size:** 27.5 Inches

**Battery:** 36V 22.5Ah Lithium-Ion

**Motor:** 250W Brushless

**Max Range (Assisted):** Up to 140 KM

**Charging Time:** 6-8 Hours

**Max Slope:** 30°

**Max Speed:** 25 Km/h

**Payload Max:** 100 KG

**Electric Bike Weight:** 29 KG

## 10. WARRANTY AND SUPPORT

ONESPORT offers comprehensive support for your OT05 Pro Electric Bicycle.

### 10.1. Manufacturer's Warranty

The ONESPORT OT05 Pro Electric Bicycle comes with a **2-year manufacturer's warranty** covering technical defects. Please retain your proof of purchase for warranty claims.

### 10.2. Return Policy

You may benefit from a free return within 14 days without specific motivation, as per the retailer's policy.

### 10.3. Customer Support


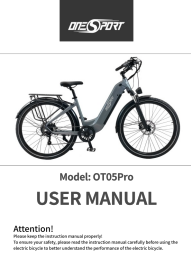






For any questions, technical assistance, or warranty claims, please contact ONESPORT customer support through the retailer's platform or visit the official ONESPORT website for contact information. When contacting support, please have your model number (OT05 Pro) and purchase details ready.


We are committed to ensuring your satisfaction and providing prompt assistance.

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Related Documents - OT05 Pro

 <p>Model: OT05 USER MANUAL</p> <p><b>Attention!</b> Please read the user manual properly. To ensure your safety, please read the user manual carefully before using the electric bicycle to better understand the performance of the electric bicycle.</p>	<p><a href="#">ONESPORT OT05 Electric Bicycle User Manual</a></p> <p>This user manual provides comprehensive instructions for the ONESPORT OT05 electric bicycle, covering assembly, operation, safety guidelines, maintenance procedures, error codes, and warranty information.</p>
 <p>Model: OT05Pro USER MANUAL</p> <p><b>Attention!</b> Please read the user manual properly. To ensure your safety, please read the user manual carefully before using the electric bicycle to better understand the performance of the electric bicycle.</p>	<p><a href="#">ONESPORT OT05Pro Electric Bicycle User Manual</a></p> <p>Comprehensive user manual for the ONESPORT OT05Pro electric bicycle, covering assembly, operation, maintenance, safety guidelines, and warranty information.</p>
 <p>X1 PRO GEN 4</p>	<p><a href="#">CYC X1 Pro Gen 4 Mid Drive E-bike Motor</a></p> <p>Discover the CYC X1 Pro Gen 4, a high-performance mid-drive e-bike conversion kit offering advanced torque sensing, up to 5kW of power, and broad frame compatibility for electric bicycle enthusiasts.</p>
 <p>Model: OT16 USER MANUAL</p> <p><b>Attention!</b> Please read the user manual properly. To ensure your safety, please read the user manual carefully before using the electric bicycle to better understand the performance of the electric bicycle.</p>	<p><a href="#">ONESPORT OT16 Electric Bicycle User Manual</a></p> <p>Comprehensive user manual for the ONESPORT OT16 electric bicycle, covering assembly, operation, safety, maintenance, and troubleshooting. Learn how to set up, charge, and ride your e-bike safely.</p>
 <p>Model: OT01 USER MANUAL</p> <p><b>Attention!</b> Please read the user manual properly. To ensure your safety, please read the user manual carefully before using the electric bicycle to better understand the performance of the electric bicycle.</p>	<p><a href="#">ONESPORT OT01 Cargo E-bike User Manual and Safety Guide</a></p> <p>Comprehensive user manual and safety guide for the ONESPORT OT01 Cargo E-bike, covering assembly, operation, maintenance, and warranty information.</p>







Model: OT05Pro  
**USER MANUAL**

**Attention!**  
Please keep the instruction manual properly!  
To ensure your safety, please read the instruction manual carefully before using the electric bicycle to better understand the performance of the electric bicycle.

[ONESPORT OT05Pro Electric Bicycle User Manual - Safety, Operation, and Maintenance Guide](#)  
Comprehensive user manual for the ONESPORT OT05Pro electric bicycle. Covers unboxing, structure, charging, operation, safety guidelines, maintenance, and warranty information.

Documents - ONESPORT – OT05 Pro






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**USER MANUAL**


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lang:i-klnglon **score:48** filesize: 3.65 M page\_count: 20 document date: 2025-03-16





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[ONESPORT OT05Pro Electric Bicycle User Manual](#)

Comprehensive user manual for the ONESPORT OT05Pro electric bicycle, covering assembly, operation, maintenance, safety guidelines, and warranty information.

lang:i-klnglon **score:26** filesize: 3.65 M page\_count: 20 document date: 2025-03-16

Compliance Document  
No. D 127464 0042 Rev. 00

Holder of Certificate: Dongguan Onesport Technology Co.,Ltd  
Room 101, Building 2, No.6  
East Second Street, Gedi Xinnan Road, Nancheng Street  
523560 Dongguan City, Guangdong Province  
PEOPLE'S REPUBLIC OF CHINA

Product: Bicycles with electric drive  
Pedelec

Model(s): Marathon (M-05PRO, OT-05PRO, OT05MAX,  
OT05Line)

Parameters:  
Cut off speed (km/h): 25  
Max. continuous rated power (W): 250  
Rated voltage (V DC): 36  
Minimum saddle height (mm): 530  
Maximum saddle height (mm): 1050  
Dimension (mm): 1020x480x1120  
Net weight (kg): 29  
Max. permissible total weight (kg): 120

Tested according to:  
EN 15194:2017(A1):2023 Excluding clause 4.2.3, 4.3.17, 4.3.22

This Compliance document confirms the compliance with the listed standards on a voluntary basis. It refers only to the sample submitted for testing and certification and does not certify the quality or safety of the entire product. For details see: www.tuv.sud.com-cert

Test report no.: 6471025140101

Date: 2025-06-06

(Allen Guo)

Page 1 of 1  
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[pdf] Dimension Guide Declaration of Conformity Test Report

ONESPORT TUV Conformity ReportONESPORT OT05 Pro 27 5 City Electric Bike 250W Motor 36V 22 5Ah Batte GleerideOT05 22cdn shopify s files 1 0627 2532 4996 v 1753089986 |||

Compliance Document No. D 127464 0042 Rev. 00 Holder of Certificate: Dongguan Onesport Technology Co.,Ltd Room 101, Building 2, No.6 East Second Street, Gedi Xinnan Road, Nancheng Street 523560 Dongguan City, Guangdong Province PEOPLE S REPUBLIC OF CHINA Product: Bicycles with electric drive Ped... lang:en score:25 filesize: 287.89 K page\_count: 1 document date: 2025-06-06

Attestation of Conformity  
No. E8A 127464 0039 Rev. 00

Holder of Attestation: Dongguan Onesport Technology Co.,Ltd  
Room 101, Building 2, No.6  
East Second Street, Gedi Xinnan Road, Nancheng Street  
523560 Dongguan City, Guangdong Province  
PEOPLE'S REPUBLIC OF CHINA

Name of Object: Bicycles with electric drive  
(Pedelec)

Model(s): Marathon, M-05PRO, OT-05PRO, OT05MAX, OT05Line  
(These models are all the same Pedelec, but they represent different customer models)

Description of Object:  
Rated voltage: DC 36V  
Rated Power: 250W

Tested according to:  
EN 15194:2017(A1):2023 Clause 4.2.15

This Attestation of Conformity is issued on a voluntary basis according to the Directive 2014/53/EU relating to electromagnetic compatibility. It certifies that the listed equipment complies with the principal protection requirements of the directive and is based on the technical specifications applicable at the time of issuance. It refers only to the particular sample submitted for conformity assessment. For details see: www.tuv.sud.com-cert

Test report no.: 6471025139001

Date: 2025-05-27

(Mike Zhao)

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This Attestation does not replace the regulatory EU Declaration of Conformity (DoC) and does not allow for CE marking. After preparation of the necessary documentation and establishing compliance to requirements of all applicable directives, the manufacturer may sign a DoC and apply the CE marking. The DoC is issued under the sole responsibility of the manufacturer.

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[pdf] Specifications Declaration of Conformity Test Report

ONESPORT TUV Compliance ReportONESPORT OT05 Pro 27 5 City Electric Bike 250W Motor 36V 22 5Ah Batte GleerideOT05 28cdn shopify s files 1 0627 2532 4996 28 v 1753089986 |||

Attestation of Conformity No. E8A 127464 0039 Rev. 00 Holder of Attestation: Dongguan Onesport Technology Co.,Ltd Room 101, Building 2, No.6 East Second Street, Gedi Xinnan Road, Nancheng Street 523560 Dongguan City, Guangdong Province PEOPLE S REPUBLIC OF CHINA Name of Object: Bicycles with ele... lang:en score:25 filesize: 364.31 K page\_count: 1 document date: 2025-05-27

Holder of Attestation: Dongguan Onesport Technology Co.,Ltd  
Room 101, Building 2, No.6  
East Second Street, Gedi Xinnan Road, Nancheng Street  
523560 Dongguan City, Guangdong Province  
PEOPLE'S REPUBLIC OF CHINA

Product: Bicycles with electric drive  
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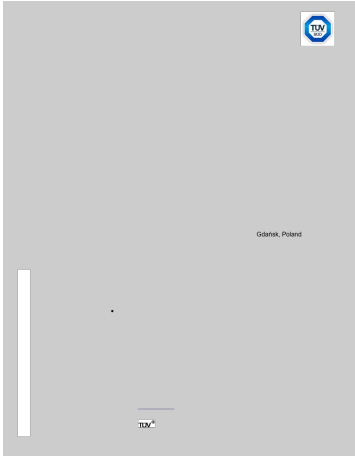
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Technical Report Alex von Mylius ONESPORT ReportONESPORT OT05 Pro 27 5 City Electric Bike  
250W Motor 36V 22 5Ah Batte GleerideOT05 32cdn shopify s files 1 0627 2532 4996 32 v 1753089990 |||

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