

**ANGWATT**

—— **ANGWATT CS1** ——  
**ELECTRIC SCOOTER**

User Manual

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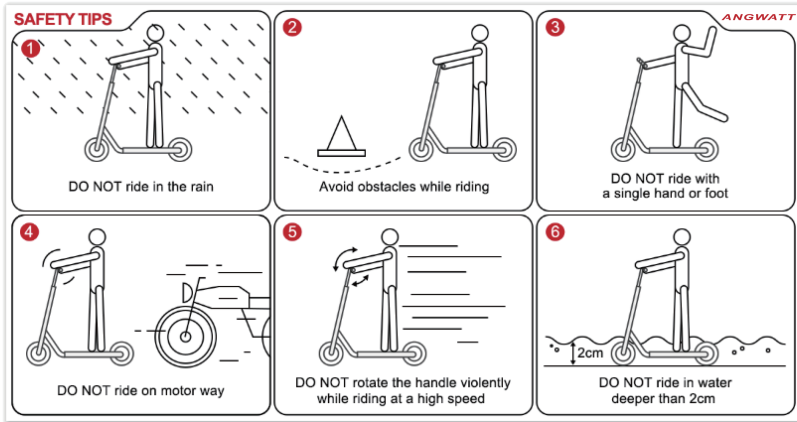
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## ***Dear Customer:***

Thank you for choosing ANGWATT electric scooter. We are committed to creating the best quality electric scooter products. Hope ANGWATT CS1 will bring you the best journey. May you have a good time.

# SAFE RIDING GUIDELINES



**This chapter has been created to help you understand the safe use and maintenance of ANGWATT CS1 electric scooter.**

- Do not use the scooter on rainy days to avoid rainwater entering the battery compartment and damaging the scooter.
- Before driving the scooter, please make sure the scooter's screws are tightened and the brake system is working properly.
- Persons without excellent vision, balance, coordination, reflex, muscle and bone strength and good decision-making capabilities should not use this product.
- The user of this product assumes ALL risks associated with its use. To minimize these RISKS, the user must wear safety helmet, goggles, gloves, elbow and knee pads and appropriate footwear.
- This manual contains important safety information. It is your responsibility to review this information and make sure that all riders understand all warnings, cautions, instructions and safety. We're not liable for incidental damages or consequential damages due directly or indirectly to the use of this product.
- Riding the electric scooter can be a hazardous activity. Certain conditions may cause the equipment to fail without fault of the manufacturer. Like other electric products, the scooter can and is intended to move and it is therefore possible to lose control, fall off and/or get into dangerous situations that no amount of care, instruction or expertise can eliminate. If such things occur you can be seriously injured or die, even when using safety equipment and other precautions. **RIDE AT YOUR OWN RISK AND USE COMMON SENSE.**

# ***ALWAYS FOLLOW THE LOCAL LAWS AND REGULATIONS.***

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- Understand your local laws permitting the use of Electric scooters, please use this product within the scope of the law.
- Never ride your scooter in conditions of poor visibility.
- Do not do stunts, wheelies or jumps. They will increase your chances of injury and damage your ANGWATT CS1.
- Never carry passengers.

## ***PACKING LIST***

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Package Contents	1 X Electric Scooter
	1 X Manual
	1 X Charger
	1 X Installation Tool
	2 X NFC Cards



# SPECIFICATION

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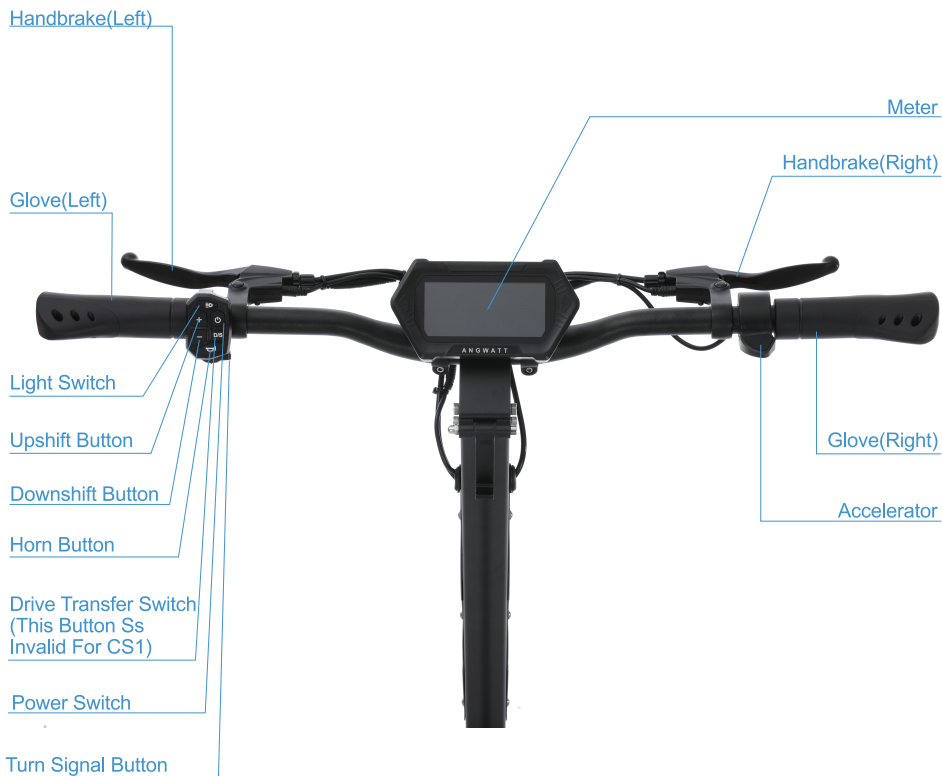
Model	CS1
Frame Material	Iron + Aluminum Alloy
Battery Voltage	48V 21.3Ah Lithium Battery
Drive	1000W(Peak Power) Rear Wheel Motor
Drive Type	Brushless Hall Motor
Controller Current	29A
Charger Specifications	48V 2A
Charger Input Power	AC 110-240V 50-60HZ
Charger Output Voltage	54.6V
Charger Output Current	2A
Charging Time	About 8 Hours
Tire	11-Inch Tubeless Tire
Max Mileage	About 65-85 Km
Max Speed	About 55 Km/h
Climbing Angle	About 30°
Brake	Dual Mechanical Disc Brake + Electronic Brake
Turn Signal	Rear Turn Signals
Driving Lights	Headlight + Sidelight + Taillight
Shock Absorber	Front And Rear Shock Absorption
Opening Method	Power Switch + NFC Card
Max Load	About 200KG
Expand Size	About 132*68*130cm
Folded Size	About 132*68*60cm
Net Weight	About 30KG
Gross Weight	About 34KG

# ANGWATT CS1 PRODUCT STRUCTURE



# HANDLEBAR STRUCTURE

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# FEATURES & FUNCTIONS

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1. How to turn on the electric scooter: First press the "Power Switch", then touch the screen with the "NFC card", hear a beeping sound, and then the "Meter" turns on, indicating that the electric scooter has been started. (Note: The entire NFC card should tightly attached to the Meter. After successfully turning on the electric scooter, you can take it away)
2. How to turn off the electric scooter: Touch the screen with the "NFC card", hear a beeping sound, and the "Meter" turns off, indicating that the electric scooter has been turned off. (Note: There is no need to press the "Power Switch" to turn off the electric scooter.)
3. How to change the speed gear: Increase the speed gear by pressing "+", and decrease the speed gear by pressing "-".
4. About the "Drive Transfer Switch" button: ANGWATT CS1 is a single-motor electric scooter, and this button is invalid for CS1.
5. How to turn on the lights: Press "Light Switch" to turn on the headlights, side lights, and front and rear riding lights. Turn on the turn signal by pressing the "turn signal button" and turn on the brake light by pressing the "handbrake".
6. How to copy the NFC card key to your phone: You can turn on the NFC card copy function of your phone, get close to the NFC card that needs to be copied, and add the NFC key to your phone. (Note: Only 3 NFC keys can exist. If you copy the NFC key to a second phone, one NFC card will become invalid). If you have questions about copying NFC keys, you can contact the seller for a video tutorial.
7. How to switch the display of single mileage/total mileage: Press "Power Switch" after turning on the electric scooter to switch the display of single mileage or total mileage.
8. How to enter the engineering mode: After turning on the electric scooter, press "+" and "-" at the same time for 3-5 seconds to enter the engineering mode and modify the P value of the scooter.
9. How to modify the P value in engineering mode: On the engineering mode page, short press "Power Switch" to switch the P value. Short press "+" or "-" to change the parameters of P value. After selecting the parameter of the required P value, press "Power Switch" to switch to the next P value. After all, you can press "+" and "-" again for 3-5 seconds to exit engineering mode.

# METER P VALUE SETTING INSTRUCTIONS

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P1: Mileage (unit: 0:km, 1: mile).

P2: wheel diameter (unit inc, accuracy: 0.1).

P3: Voltage level (36V, 48V, 52, 60, 72 V).

P4: Sleep time (3, 5, 10; unit minutes).

P5: Number of speed measuring magnets (range: 1-6).

P6: Speed limit, range 0-100 (this value is the maximum speed percentage, not a speed value).

P7: Zero start, non-zero start setting, 0: zero start; 1: non-zero start.

P8: This scooter is not suitable, please do not change it.

P9: This scooter is not suitable, please do not change it.

P10: This scooter is not suitable, please do not change it.

P11: This scooter is not suitable, please do not change it.

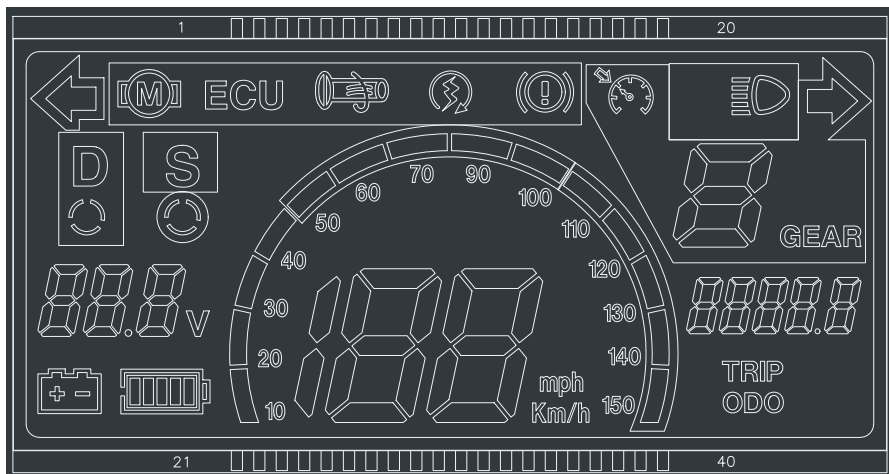
P12: Controller current limit setting (range: 1-80A).

P13: Controller undervoltage value.

P14: Cruise control (0 does not enable cruise control/1 enables cruise control).After this mode is turned on, pressing the accelerator continuously will fix the current speed, and pressing the accelerator briefly will cancel the cruise control.

P15 is not suitable for this scooter, please do not change it.

# METER INTRODUCTION



Icon	Meaning	Icon	Meaning
	Left Turn Signal		Right Turn Signal
	Battery Display		Speed Display
	Lights On		Braking
	Controller Error		Speed Unit Km/h MPH
	Dual Drive Mode (CS1 Not applicable)		Single Drive Mode
	Bluetooth Display (not applicable to this scooter)		Throttle Error
	Motor Error		Cruise Control
	Zero Start/ Non-Zero Start		TRIP: Single Mileage ODO: Total Mileage
	Total Mileage		Speed Gear

# **STORAGE AND MAINTENANCE**

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## **Maintenance and cleaning**

If you see stains on the scooter's body, wipe them off with a damp cloth. If the stains won't scrub off, put on some toothpaste, and brush them with a toothbrush, then wipe them off with a damp cloth. If you see scratches on plastic parts, use sandpaper or other abrasive materials to polish them.

Notes: do not clean the scooter with alcohol, gasoline, kerosene or other corrosive and volatile chemical solvents to prevent dire damage. Do not wash the scooter with a high-pressure water spray. During cleaning, make sure that the scooter's turned off, the charging cable is unplugged, and the rubber flap is closed as water leakage may result in electric shock or other major problems.

## **Storage**

When not using the scooter, place it in a dry and cool indoor environment free of sundries and flammable items. Do not leave it outside for a long time. Excessive sun exposure, high and low temperatures can accelerate tire aging, and rain can damage the life of the scooter and battery.

## **Battery maintenance**

1. Use original battery packs, use of other models or brands may bring about safety issues;
2. Do not touch the contacts. Do not dismantle or puncture the casing. Keep the contacts away from metal objects to prevent short circuit which may result in battery damage or even injuries and deaths;
3. Use original power adapter to avoid potential damage or fire;
4. Mishandling of used batteries may do tremendous harm to the environment. To protect natural environment, please follow local regulations to properly dispose used batteries.
5. After every use, fully charge the battery to prolong its lifespan.
6. Recommended charging time  
About 8 hours.

7. Please keep an eye on the scooter during charging to avoid overcharging. Do not place the battery in an environment where the ambient temperature is higher than 50°C or lower than -20°C (e.g., do not leave the scooter or the battery pack in a car under direct sunlight for an extended time). Do not throw the battery pack into fire as it may lead to battery failure, battery overheating, and even another fire. If the scooter is expected to be left idle for more than 30 days, please fully charge the battery and place it in a dry and cool place. Keep in mind to recharge it every 60 days to protect the battery from potential damage which is beyond limited warranty.

Always charge before exhausting the battery to prolong the battery's lifespan. The battery pack performs better at normal temperature, and poor when it is below 0°C. For instance, when it is below -20°C, the riding range is only half or less at normal state. When the temperature rises, the riding range restores.

Note: The built-in intelligent chip will keep a log of its charging and discharging records. The damage caused by prolonged no charge is irreversible and is beyond limited warranty. Once the damage is done, the battery can not be recharged (non-professionals are forbidden to dismantle the battery pack, as it may cause electric shock, short circuit or even major safety accidents).



# WARRANTY INSTRUCTIONS

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Item	Parts Name	Warranty Period
Main Parts	Motor	12 monthes
	Battery	
	Controller	
Function Parts	The charger	3 monthes
	Front light	
	Tail light	
	Brake light	
	Brake device	
	Accelerator	
Appearance Parts	Paint Logo	No warranty
	Sticker	
	Mudguard	
	Other accessories not shown in list	

## Note:

If you find that the goods are damaged due to transportation, please contact the seller within 3 days. They will send you the corresponding accessories. After more than 3 days, the seller will not be responsible for the damage caused by transportation.

If your scooter is damaged due to improper use (violent use/overload use/impact damage), this is not covered by the warranty.

If the battery capacity declines by 30% within one year, you can contact us for after-sales maintenance. (If the battery problem is caused by long-term non-charging, man-made damage, water in the battery compartment, etc., it is not covered by the warranty and needs to be repaired at your own expense).

# FAQ

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**Q1: Can I use this scooter product in rainy weather?**

A1: You cannot use the scooter on rainy days. If the scooter is damaged due to water entering the battery compartment, you will lose your battery warranty.

**Q2: Can I modify my scooter?**

A2: You can modify the scooter according to your personal preferences. Of course, if some parts are damaged due to modification, you will lose the corresponding warranty.

**Q3: Do you have after-sales points in Europe?**

A3: Of course, we currently have a maintenance point in the Czech Republic.

**Q4: How can I buy accessories for my scooter?**

A4: You can buy it through our partner online store. In the future, we will also develop offline stores, which will give you greater convenience.

**Q5: How can I proceed if I need warranty service?**

A5: You can directly contact the seller who sold the product, and we will urge them to provide after-sales service.

**Q6: Why are there differences in the speed and voltage values displayed on my center screen and the computer?**

A6: Because the circuits connected by the two have delay, a slight difference will not affect your use. If there is a big difference, please contact customer service, we will guide you to adjust.