

*Automatic Folding*  
*Wheelchair*  
**S7018**





# Content

1. Important information .....	02
2. Safety instruction overview .....	02
2.1 Application scope .....	02
2.2 Instruction on driving safety .....	02
2.3 Instruction on safety precaution .....	03
2.4 Instruction on practice .....	03
3. Specification of design and function .....	04
3.1 General overview of product .....	04
3.2 Description of structural composition and diagram .....	04
3.3 Main technical parameters .....	05
4. Operating instruction .....	06
4.1 Description of operator's ability .....	06
4.2 Controller .....	06
4.3 Remote lift operation .....	09
5. Maintenance and care .....	11
6. Instruction and precaution of battery .....	12
7. Transportation condition and storage environment .....	13
8. Environmental protection .....	13
9. Description of replacement of vulnerable part under normal use environment .....	13
10. Mode of packaging and accessories list .....	13
11. Troubleshooting Guideline .....	14
12. Contact information of technical support .....	14
13. Warranty card and warranty specification .....	15
14. Interpretations of graphics, symbols, abbreviations and other contents used for the labels of medical devices .....	16
15. Appendix Warranty Card .....	17
16. Battery composition/information on ingredients .....	17

## 1. Important information

Dear users,

Thank you for selecting the electric wheelchair! You must read and understand the operating instruction, especially the “safety instruction” part before you use the electric wheelchair of the company. The main purpose of the operating instruction is to be familiar with the functions and characters of the electric wheelchair of the company and how to operate it by the best mode. It also includes some important safety information and maintenance information, as well as the description of the possible problems in the driving process.

Keep the operating instruction on the electric wheelchair, because you may look up the important information of use, safety and maintenance of electric wheelchair at any time, and you can also acquire the relevant information of products of the company through the homepage of the company website([www.solaxtech.com](http://www.solaxtech.com)); or contact with the dealer, or call Guangdong Prestige Technology Co., Ltd.(TEL:+86 0769 8592 2501).

Declaration: This wheelchair has taken into account the requirements of EN ISO14155:2020. The design of this wheelchair complies with the ergonomic principles specified in EN614-1:2006+A1:2009.

Warning: The wheelchair will not interfere with the operation of the surrounding electromagnetic field equipment(such as the alarm system of the store, automatic doors, etc.) during use. For details, see the EMC report of the S7018.

Warning: The driving performance of the wheelchair is not affected by the surrounding electromagnetic field(such as the electromagnetic field emitted by the generator or high power supply). For details, see the EMC report of the S7018.

All information, pictures, illustrations and specifications in the operating instruction are based on the product information provided in printing the operating instruction, and all pictures and illustrations are representative examples, but are not aimed at exactly describing each part of the electric wheelchair. Due to continuous improvement of the product, the company reserves the right to change the product but not to notify in advance.

## 2. Safety instruction overview

2.1 This scooter is used as a mobility aid for people who are disabled or feeble, and patients or seniors who need mobility supports or assists. The maximum safe loading of the electric wheelchair is 125 kg.

### 2.2 Instruction on driving safety

- (1) The user must firstly be familiar with its usage mode and operating mode before driving the electric folding wheelchair, so memorize the chapter of the operating instruction.
- (2) Evaluate the personal physical health condition of the user firstly before driving, and it is not appropriate to drive under the following circumstances: The patients with illness or discomfort and visual impairment, especially the patients with unsound upper limb, acute tumor and heart disease, pregnant or menstrual women, children(under 12 years old), and the patients with inconvenient action or slow perception, unconsciousness, coma and poor blood circulation or serious sensitive skin; The users who concern about own health, firstly consult the physician before using. The users who are equipped with the heart rate adjustor please firstly consult the physician before using.
- (3) Do not stop the wheelchair on the slope when driving;
- (4) Prohibit from riding the electric folding wheelchair for fear of danger after drinking, feeling fatigued or taking medicine.
- (5) Avoid riding the electric folding wheelchair at night in case of danger.
- (6) Confirm that the power is off firstly when getting on and off the electric folding wheelchair.
- (7) Do not ride the electric folding wheelchair on the motorway.
- (8) Do not connect any mechanical or electronic device on the electric folding wheelchair privately for fear of personal injury.

- (9) Do not drive at the gradient of more than 8°. Do not span across the groove that the span is more than 100 mm; Do not forcibly span across the step at the height of more than 40 mm.
- (10) Do not drives on the water-logged, frozen, moisten, slippery ground or saline-alkaline land, and otherwise the accident and personal injury may be caused.
- (11) Do not combine with the vehicles each other, and otherwise the accident and personal injury may be caused.
- (12) The electric folding wheelchair will be affected by operation under the specific electromagnetic interference, such as security system or automatic door of general stores.
- (13) Do not use the electric folding wheelchair to carry the articles or passengers.
- (14) Prohibit from climbing or driving along the edge of the road, otherwise the vehicle will be perpetually damaged.
- (15) Do not exceed the maximum weight loading.
- (16) Do not take the escalators when driving the electric wheelchair.
- (17) Do not make a turn at S curve or suddenly rotate for fear of overturning danger when driving the electric wheelchair.
- (18) Charge the electric wheelchair fully before using.
- (19) The wheelchair adopts electromagnetic brake. When the joystick on the controller is released, it can brake automatically immediately.

### **2.3 Instruction on safety precaution**

- (1) Do not operate the wheelchair before the user does not fully read and understand the manual.
- (2) Do not drive after driving.
- (3) Do not leave the key on the wheelchair when it is not guarded.
- (4) The seat must be locked and fixed in place.
- (5) Be careful to slow down when driving at the turning and on the uneven rock or soft ground, or on the slope, bulged ground and places without protective edge(such as kerbside, vestibule and stairs).
- (6) Prohibit from changing the initial setting of wheelchair.
- (7) Be careful to drive on the busy streets, markets or shopping centers, prohibit from driving on the unsafe zones and legally forbidden roads, and consult the traffic rules of local government or national agency on driving wheelchair.
- (8) Hold the handle by both hands and place two feet on the pedal when driving.
- (9) Placing the wheelchair on the moving vehicle asa seat is prohibited.
- (10) When the wheelchair is transported on other vehicles, please ensure the safety of the battery.
- (11) Do not back up on the uneven ramp or ground, and be careful of passing ramp.
- (12) Do not drive at night, in rainy days, snowfalling days , strong windy days and on the narrow or uneven roads, etc...

### **2.4 Instruction for practicing**

- (1) Take practice firstly before using the electric folding wheelchair.
- (2) Take practice in the wide and open areas to avoid danger.
- (3) Practice items; Accelerate/decelerate/park/back up/turn/uphill and downhill, please take as more practices as you can.
- (4) Adjust the speed to the slowest speed firstly, and speed up according to the proficiency in the initial practice.
- (5) It is suggested to be accompanied by the "carer" in the whole process to avoid danger and accident in the initial practice and initial use.

(6) The electric folding wheelchair is controlled by the user through fingers to move forward and backward and turn left and right, and master the speed, so the user must be capable of: reading and understanding the operating instruction, distinguishing and evaluating the danger, safety awareness and quick reaction.

### 3. Specification of design and function

#### 3.1 General overview of product

- ◇ Working principle: The electric wheelchair is a power wheelchair supplied by battery energy and controlled and driven by electronic devices. The user can drive the wheelchair to move through control devices. It mainly consists of the motor, battery, control systems, wheel, seat, armrests etc.
- ◇ The weight of the electric wheelchair is 48kg (Without battery).
- ◇ The applicable standard requirement in ISO 7176 is used in the performance index in the technical requirement.

#### 3.2 Description of structural composition and diagram

- ◇ The electric wheelchair is mainly composed of the following parts: upper controller, armrests, seat, motor group, footrest pedal, front and rear wheels, anti-tip wheels, battery packs, As shown below:



### 3.3 Main technical parameters:

Product Performance Specifications	
Model	S7018
Length	1033mm
Width	590mm
Height	875mm
Length(Folded)	825mm
Width(Folded)	590mm
Height(Folded)	405mm
Maximum Speed	Up to 7.2km/h
Motor	Brushless motor
Weight Capacity	125 kg
Driving Distance	24 km
Obstacle Climbing	0-50mm
Batteries	25.2V 10AH*2
Driving System	1.25kg*2
Tires	10"*2 Omni+, 10"*2 Solid
Turning Radius	≤0.6 M
Charger	Input:100-240V~,50/60Hz,1.4A Output:DC 29.4 V/2 A
Weight	46.5 kg (battery excluded)



The final confirmation specification is subjected to the vehicle.

## 4. Operating instruction

### 4.1 Description of operator's ability:

4.1.1 The electric wheelchair is controlled by the user through fingers to move forward and backward and turn left and right and folds and unfold, and master the speed, so the user must be capable of:

- (1) Be capable of reading and understanding the operating instruction
- (2) Be capable of distinguishing and evaluating danger
- (3) Safety awareness or follow the road safety specification
- (4) Quick reaction ability

### 4.1.2 Description of requirement for getting on and off:

The following shows how to ride with the assist of the carer:



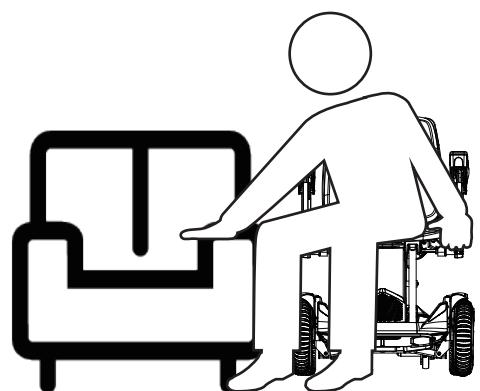
Diagram of getting on



Diagram of getting off

■ The wheelchair should be turned off prior to entering or exiting the wheelchair.

- Ensure your power chair is not in freewheel mode.
- Turn the caster wheels toward the transfer destination to improve power chair stability during transfer.
- Make sure both armrests are flipped up or removed from your power chair.
- Move the leg rests aside; this will help to keep your feet from getting caught on the front rigging during the transfer.
- Reduce the distance between your power chair and the object you are transferring onto.

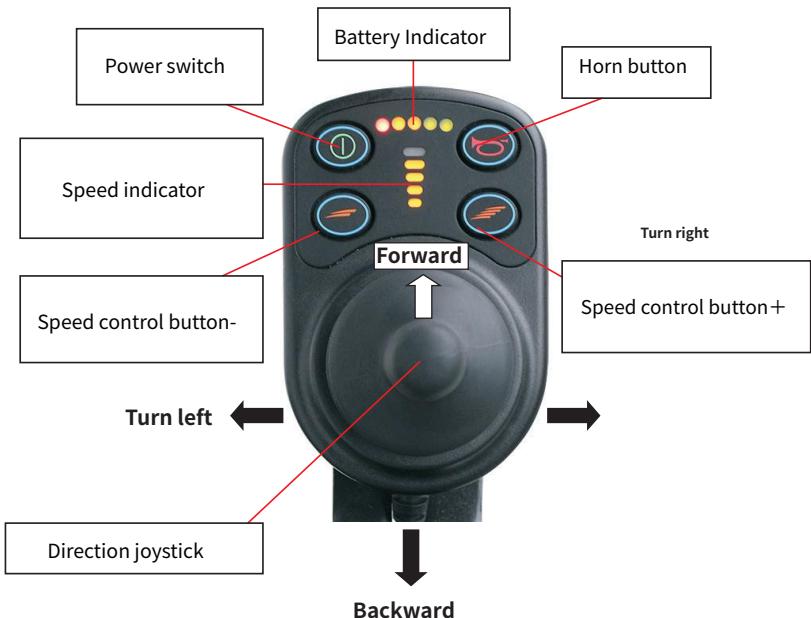


## 4.2 Controller:

### 4.2.1 Controller illustration:

Note: Battery indicator: 5 light beads: indicates that the battery is fully charged. 1 light bead (leftmost): indicates that the battery is insufficient and needs to be charged in time. It is recommended to check the number of light beads after the controller is turned on, so as not to affect the use.

When the battery is beyond the normal service life, it may affect the battery power and the accuracy of the power displayed by the indicator light.



### 4.2.2 Instructions:

#### 4.2.2.1 Power switch, press once to turn on the power, then press again to turn off the power.

The means to disconnect the battery system: Press the power switch on the controller with your finger, and the light on the power indicator is off. (As shown below).



#### 4.2.2.2 Horn button key, press the horn key to sound, release the horn key to stop.



4.2.2.3 Speed control , speed control button - , speed control button +.



4.2.2.4 Joystick , Is used to control the moving directions.



Forward



Backward



Turn left



Turn right



Warning: Do not operate the wheel chair when it is not working properly or unstable!

4.2.2.5 According to user needs, the armrest can be retracted and retracted freely.

As shown below



[armrest can be retracted and retracted freely]



Do not place the controller in a humid environment. If the controller is wet, make sure it is completely dry before operating.



Warning: Please be careful when retracting/placing the armrest, careful of pinching your fingers!

4.2.3 On the controller's power indicator, the full green light indicates that the battery is fully charged, and the red light is on when the battery is low and you need to charge the battery. There is a charging port at the bottom of the controller. When the battery level is insufficient, insert the charger plug into this port to charge.

As shown below



#### 4.3 Folding & Unfolding:



↙ is the unfolding key  
(used to extend the car body)

↘ is the folding key  
(used to close the car body)

##### A. Wireless remote control function operation

###### Unfolding Button

1. Press the ↘ key of the remote control once, and the car body will close half automatically.
2. Press the ↘ key of the remote control once to complete the closing.



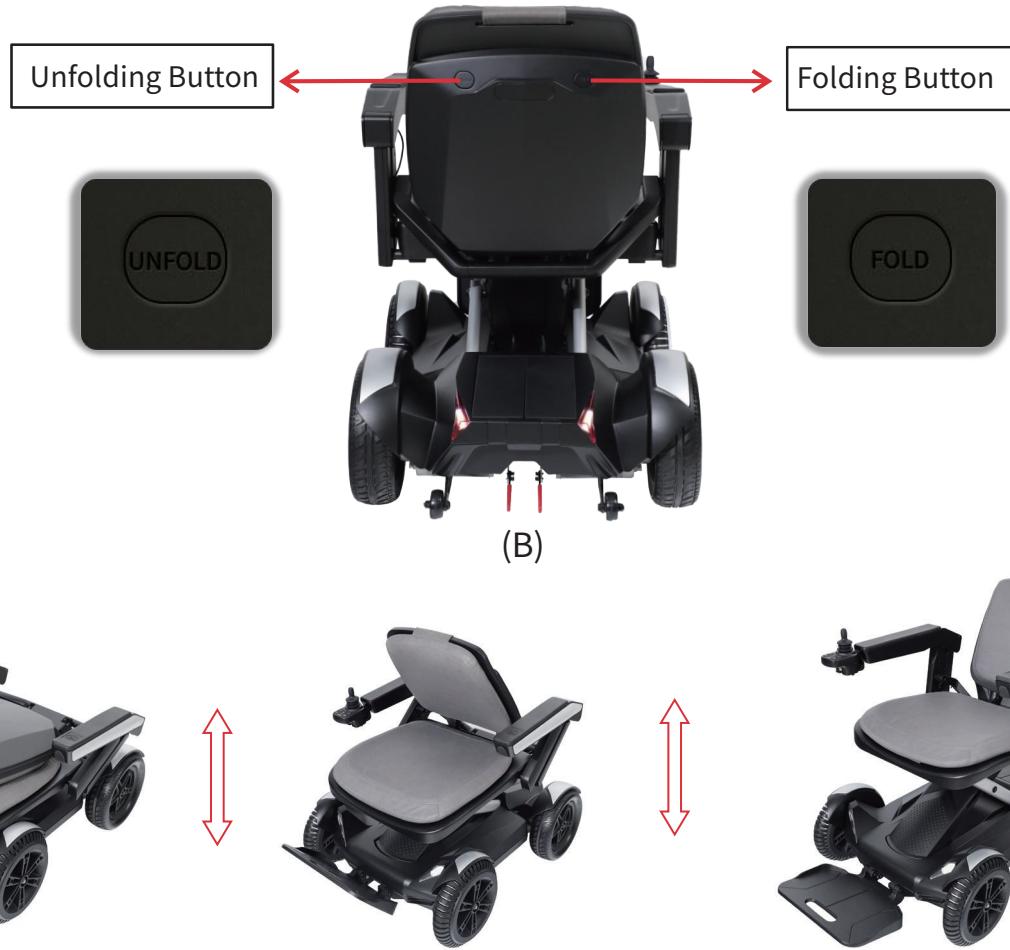
###### Folding Button

1. Press the ↙ key of the remote control once, and the car body will extend half automatically.
2. Press the ↙ key on the remote control once to complete the stretch.



It is forbidden to perform electric folding and unfolding operations on slopes.

B.Unfold and fold' s button on the seat back.



If you feel that the wheelchair is not responding during the operation, please check if there are any obstacles.

#### 4.4 The pedais

When you need to get on and off, you can fold up the pedais up to 90° to make it easier to get on and off.



The pedais

## 5. Maintenance and care

### 5.1 Maintenance

5.1.1 Place the wheelchair in the dry and ventilated place and avoid the oil, acid, alkaline and other corrosive chemical substances.

5.1.2 Daily cleaning: The control panel, shell, etc., are made of the durable ABS plastics, and the surface is painted. The wheelchair cannot be wiped with oil or other chemical liquids; The wheelchair cannot be scrubbed with sharp brush to prevent the surface from being scratched; The wheelchair cannot be directly washed by the faucet to prevent the electrical module from damage. The wheelchair can be directly wiped with clean rag, wiped after the clean rag is stained with clean water and wrung.

The wheel cannot be wiped with oil or other chemical liquids and be directly washed by faucet, but the surface can be directly wiped with clean rag or soft brush, or wiped after the clean rag or soft brush is stained with clean water and wrung or dried.

The surface of the seat is only wiped directly with the clean rag, or wiped after the clean rag is stained with clean water and wrung.

5.1.3 Daily disinfection: If many people use the case, should be disinfected according to the dirt and use, can use 70%-80%(volume ratio) ethanol solution to wipe the surface twice, the effect of 3 minutes for disinfection, pay attention to avoid liquid into the internal circuit.

5.1.4 The wheelchair is prohibited from being used in playing a ball game, and other sports activities.

5.1.5 The user shall often check the air pressure of the pneumatic tire, pay attention to the wear of pattern of tire, and replace it when necessary.

5.1.6 Often check the screws, and tighten it if the screws are loosened.

5.1.7 Often clear the objects stuck in wheel bearing(such as hairline and thread residue).

5.1.8 Often check the sensitivity of the brake, and pay attention to whether the cushion is broken to ensure safety.

### 5.2 Care

5.2.1 Basic maintenance when the wheelchair is used every day: Check it before using every day, and check whether the appearance of the wheelchair is broken.

5.2.2 Monthly or yearly basic maintenance check:

The electrode on the battery is not corroded;(Every month) the battery must be placed in the battery box according to the order and the electrode is closely connected(the battery box cannot be opened).(Yearly)

Electric wire connection: Regularly check all exposed electric wire connection;(Monthly) Regularly check the insulation of all exposed electric wires, including power plug of charger;(Monthly)

Repair or replace the damaged fittings and connection.(Yearly)

Regularly check whether all exposed screws or nuts are loosened.(Monthly)

If the module has been injected with the lubricating oil and used in a closed way, it is unnecessary to be injected again;(Yearly)



Note: Avoid all electrical modules from being damped. Such as control panel, charger and electrical controller. If part of modules is damped, they can be used after being dried.

## 6. Instruction and precaution on batteries

6.1 Two lithium batteries are used.

Nominal voltage:25.2V;Cut-off voltage:17.5V.



6.2 When the batteries are used for the first time, be sure to fully charge them before use.

The wheelchair is charged according to the voltage of the country and region and configured charging plug, but the too low or too high voltage and unmatched plug cannot be used to prevent damage.

6.3 How the battery is charged

After the batteries are used for a period, the power level of the batteries shall be timely checked, when the power level is unsaturated or low, the batteries shall be timely charged.

Warning: The battery can be taken out separately according to the customer's needs, and the weight of a single battery is 1.25Kg.

The lithium battery used in the wheelchair has passed the UN38.3 certification, and the recycling of the battery can be carried out in accordance with local laws and regulations.

### Charging steps:

(1) Turn off the power, then insert the charging plug to the charging socket and connect the power, then the light on the charger will turn red (orange), And green light shows batteries are fully charged.



Warning: The batteries must be protected from the frozen temperature, the frozen batteries cannot be charged.

(2) After the batteries are fully charged, unplug the AC input power plug, and then unplug the DC charging connecting plug.

Note: Battery chargers shall operate without the need for intervention or supervision apart from connecting and turning on at the start of charging and turning off and disconnecting at the end of charging.

6.4 The charging time is about 6-8 hours.



**Warning:** If the electric wheelchair is not used for a long time, during frozen climate the battery may have been frozen. Before the wheelchair is used again, it cannot be charged in a hurry. The batteries shall be warmed and continuously placed in room temperature for several days before charging.

**Warning:** Unauthorized changes to the control system program, chargers, labels and other components of this product are not allowed, resulting in injury!

## 7. Transportation condition and storage environment

The wheelchair is packaged with the kraft material to prevent from getting wet, pressed by hard object, during transportation by sea, air and land.

The product is stored in: (-5°C-40°C temperature, 10%-80% humidity) shady and cool, dry, ventilated and corrosive gas-free place. It cannot be exposed under the direct sunshine and mixed with the flammable and explosive substances, otherwise, the product performance may be reduced or damaged.



**Warning:** When transporting wheelchairs, the battery needs to be removed from the wheelchairs before it can be transported.

## 8. Environmental protection

Treatment of wastes: The battery wastes of the electric wheelchair shall be properly treated according to the local laws and regulations after the end of service life, such as solidification and deep burying, storage in the waste mine and recycling, and cannot be randomly abandoned.

## 9. Description of replacement of vulnerable parts under normal use environment

The damaged materials should be provided and replaced by the manufacturer in normal use.

The damaged fuse should be provided and replaced by the manufacturer in normal use.

**Warning:** The maintenance of this wheelchair(such as: parts, program repair, etc.) must be our authorized agent or our technical personnel, can be repaired and debugged.

## 10. Packaging and accessories list

10.1 The product is packaged with the kraft carton, and the all accessories are in the box: One operating instruction(including warranty card);A set of batteries (installed on wheelchair/separately packaged according to the client's requirement);A set of remote control.

10.2 The model of charger of the electric wheelchair and manufacturer's information include:

Name	Specification /model
Charger	Input:100-240V~,50/60Hz,1.4A Output: DC 29.4 V/2A

Warning: The charger is used with the wheelchair, and its specifications and models must be used as recommended. To avoid product damage and other adverse effects.

## 11. Troubleshooting Guideline

- (1) When the power switch is pressed, but the power indicator is not on, check whether the power line is correctly connected with the control line. The contact is loosened or not, and the battery is full.
- (2) After the power switch is on the indicator also normally displays, but when the electric wheelchair still can not move, check if the brake levers are released.
- (3) When the user drives the electric wheelchair, if the speed is inconsistent and the wheelchair stops and goes, the user shall check whether the tire pressure is enough, the motor is overheating, has noise or other abnormal phenomena. The power line is loosened or not. If the controller is damaged, send it back to the factory for fixing brake switch.
- (4) When the brake is invalid, check whether the clutch is switched to the correct position. Check whether the "Joystick" of the controller is normally rebounded to the middle position.
- (5) If the circuit and component are damaged, send it back to the factory for fixing. The supplier can provide the circuit diagram, component list, as required, ALL replacement parts should be from the manufacture and be replaced by qualified technicians.
- (6) When the wheelchair cannot be normally charged:
  - (a) Check whether the charging voltage is matched.
  - (b) Check whether the charger contacts with the interface of the controller well.
  - (c) Extend the charging time, if the battery cannot still be charged fully, please replace it.

The batteries may be broken or aged, please replace them.

## 12. Contact information of technical support

Manufacturing address: No. 8, Road.1, 3rd Ind. District, Houjie Qiaotou, Houjie Town, Dongguan City, Guangdong Province, China

Contact number of manufacturer: 0769-8592 2501

Fax: 0769-85922505

Email: [info@solaxtech.com](mailto:info@solaxtech.com)

After-sales service: Guangdong Prestige Technology Co., Ltd.

### 13. Warranty card and warranty specification

13.1 The warranty card is shown in Appendix C

13.2 Warranty scope: If the quality problem occurs to the parts on the material, manufacturing or assembly under normal use, the agent is responsible for maintaining or replacing the parts.

The warranty is not valid under the following circumstances:

- (1) Not correctly operate, use and care according to the operating instruction;
- (2) Not use the spare parts and accessories produced by the manufacturer;
- (3) Accident;
- (4) Privately alter the design of the electric wheelchair without approval of the manufacturer.
- (5) Damage caused by typhoon, flood, earthquake and other natural disasters.

13.3) a warning that the stopping distance on slopes can be significantly greater than on level ground;

13.4

- (1) For preparing the wheelchair for long-term storage, we advise you to charge the battery 50%, and then take out the battery and store it separately.
- (2) you'd better check if the capacity of the battery is enough before use..



Warning: Unauthorized modification/repair of this equipment is not allowed! The replacement of parts may lead to unacceptable risks. If the maintenance personnel specified by the manufacturer need to replace the parts, it is necessary to strictly follow the circuit diagram, parts list, drawing notes, calibration instructions provided by the manufacturer, or other documents that help the maintenance personnel repair the parts of the equipment. When a major safety incident occurs during the use of the product, the user needs to report it to the manufacturer and the competent authorities in a timely manner.

1. The battery complies with IEC62133-2:2017/AMD1:2021;  
the charger complies with IEC 60601-1:2005/AMD2:2020;  
the wheelchair complies with the ISO 7176 series of standard requirements.

2. When the braking distance is too large or the braking fails, check whether the brake pads are severely worn, and please contact us for replacement.

## **FCC COMPLIANCE STATEMENT:**

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class

B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to

provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not

installed and used in accordance with the instructions, may cause harmful interference

to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television

reception, which can be determined by turning the equipment off and on, the user is

encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the

receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

Warning: Changes or modifications to this unit not expressly approved by the part

responsible for compliance could void the user's authority to operate the equipment.

### **FCC Radiation Exposure Statement**

The device has been evaluated to meet general RF exposure requirement.

The device can be used in portable exposure condition without restriction.

#### 14. Interpretations of graphics, symbols, abbreviations and other contents used for the labels of medical devices

	Type BF application part
	Follow operating instructions
	Remove battery
	Note, refer to the attached documents
	Battery
	Warning on clamping hands
	Keep away from the sunlight
	Jp
	Keep away from the rain
	Separate treatment sign of waste electrical and electronic equipment (Please follow the local laws and regulations)

## 15. Appendix Warranty Card

User name		ID Card No.	
Domicile		Contact number	
Machine type		Vehicle No.	
Purchase date	MM/DD/YY		
Warranty period	12 months from the date of purchase		
Manufacturer	Guangdong Prestige Technology Co., Ltd.		
Name of agent (seal or signature)			
Contact number (or address)			

## 16. Battery composition/information on ingredients

Chemical Name	CAS No.	in % by weight
Lithium nickel cobalt aluminum inate	177997-13-6	37-38.5
Graphite	7782-42-5	16-17.5
SiO	10097-28-6	1.2-1.3
Copper foil	7440-50-8	7-7.2
Aluminum foil	7429-90-5	3.7-3.73
Electrolyte	C <sub>3</sub> H <sub>4</sub> O <sub>3</sub>	96-49-1
	C <sub>4</sub> H <sub>8</sub> O <sub>3</sub>	623-53-0
	C <sub>3</sub> H <sub>6</sub> O <sub>3</sub>	616-38-6
	F <sub>6</sub> LiP	21324-40-3
Separator	/	2.2

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