

# POWER BANK

## Model: W25

## User's Manual

### 1. Scope of application

Suitable for most USB input electronic devices

### 2. Product

#### 1) Features

2.1 Fast charging, low power consumption and long-lasting power consumption.

2.2 Safe and reliable: the multiple protection (charging control, charging protection, discharge protection, overload protection and short circuit protection) of the internal intelligent control circuit of the product solves your worries when using the product.

2.3 High efficiency power maintenance: the static power consumption below 250ua (micro-ampere) still has more than 90% power after being placed for one month after being fully charged.

2.4 Strong compatibility: it can charge many brands of mobile phones, tablet computers, game consoles, digital cameras, MP3, MP4 and other digital products, just equipped with matching adapters.

2.5 Convenient and fashionable, charging anytime, anywhere, without the trouble of power failure.

#### 2) Working principle

Function description: DC5V/2A as ETA9740 input, ETA9740 boost IC output DC 5V to 9400Y power supply, output DC 5V to wireless charging output. 9400Y detect and control input voltage, output, light display, over-current, over-voltage, temperature protection, etc. .

### 3. Basic parameters

<b>Specification parameters</b>	Product name	W25
	Product size (mm)	144.34*67.84*18.5mm
	Weight (g)	255.2g
	Cell specification	1260110
	Capacity (MAH)	10000mAh
	Product appearance color	According to customer requirements

	Power indicator	Power indicator white				
Charging characteristics	Charging mode	Linear, constant current / constant voltage (CC / CV)				
	Charging current (MA)	TYPE-C:5V/2.1A				
	Wireless charging and transmitting output power	Wireless charging and transmitting output power: 5W				
	Lithium battery charging limit voltage (V)	4.25V				
	Full charge voltage of lithium battery (V)	4.20V±0.05V				
	Charging cut-off current	≤100mA				
	Discharge characteristics	On load voltage (output)	USB: 5V/2.1A TYPE-C: 5V/2.1A			
Discharge characteristics	Output voltage (V)	Operation mode		5.0V±0.3V/2100mA(max) (constant current mode)		
		standby mode		5.0V±0.3V		
		Cell protection mode (overload, overvoltage, over discharge, overcharge, short circuit, etc.)		0V		
	Self power consumption (UA) (sleep mode)	< 100ua (microampere)				
	Discharge efficiency	Average efficiency: 70% - 95% (25 degrees)				
	Product conversion rate	62%-66%				
	Protection function	After over discharge protection and short circuit protection (press the switch, the power indicator will be on and continue to output)				
	Output interface	Support automatic identification output				
	Power indication function	Press the on key when the battery is full or in non charging mode				
power		LED#1	LED#2	LED#3	LED#4	
80% ~ 100%		●	●	●	●	
60% ~ 80%		●	●	●	○	

		<table><tr><td>40% ~ 60%</td><td>●</td><td>●</td><td>○</td><td>○</td></tr><tr><td>10% ~ 40%</td><td>●</td><td>○</td><td>○</td><td>○</td></tr><tr><td>1% ~ 10%</td><td>○</td><td>○</td><td>○</td><td>○</td></tr></table> <p>● the representative LED is on ○ indicates that the LED is not on</p>	40% ~ 60%	●	●	○	○	10% ~ 40%	●	○	○	○	1% ~ 10%	○	○	○	○
40% ~ 60%	●	●	○	○													
10% ~ 40%	●	○	○	○													
1% ~ 10%	○	○	○	○													
	Input and output	Use the type-C USB input interface to charge the power bank, press the switch, and use the USB output interface to charge other devices.															
Power protection characteristics	Overcharge protection voltage (V)	4.20± 0.05 (secondary protection)															
	Current limiting protection current (a)	≥4 A															
	Over discharge protection voltage (V)	2.90±0.05															
cycle life		Number of charge discharge cycles ≥ 300															
Product characteristics	Support input and output	Use the type-C USB input interface to charge the power bank, press the switch, and use the USB output interface to charge other devices.															
	Input / output description	1. Input: 5V / 2.1a  2. Output: 5V / 2.1a															

## 4. Environmental conditions

4.2.1 Operating temperature: charging temperature 0 ~ + 45 °C

Discharge temperature: - 20 ~ + 55 °C

4.2.2 Storage and transportation temperature: - 5 ~ + 45 °C

## 5. Transportation:

The power bank shall be packed into boxes for transportation under half charged state (50 ~ 70% charged state). During transportation, it shall prevent violent vibration,

impact or extrusion, sun and rain. It shall be suitable for transportation by ordinary means of transportation such as automobile, train, ship and aircraft.

## **6. Storage:**

The storage temperature of the cell must be within the range of  $-20 \sim 45\text{ }^{\circ}\text{C}$ .

The long-term storage power bank (more than 3 months) must be placed in an environment with a temperature of  $20 \pm 5\text{ }^{\circ}\text{C}$  and a humidity of  $65 \pm 20\%$  RH. The storage voltage is  $3.7\text{V} \sim 3.9\text{V}$ , avoid contact with corrosive substances and stay away from fire and heat sources.

## **7. Safety regulations and instructions**

Please read the following instructions before use. Incorrect use will lead to heating, ignition, rupture, damage and battery energy reduction.

(warning and attention)

- 1) Do not store this product in a high temperature environment above  $45\text{ }^{\circ}\text{C}$ , nor expose it to the sun. Do not put this product into fire or other overheated environment.
- 2) Do not disassemble the product or attempt to repair or change it in any form, and do not attempt to replace any part of the product.
- 3) Do not drive nails into the battery or hit or knock with a hammer.
- 4) Do not immerse the battery in water or wet the power bank during storage.
- 5) This product will have appropriate heating phenomenon during charging and use. The temperature is below  $45\text{ }^{\circ}\text{C}$  and affects the product performance. Please rest assured to use it.
- 6) All products have passed strict quality assurance inspection before leaving the factory. If you find that this product is overheated, has peculiar smell, deformed, worn, damaged or other abnormal conditions, please stop using it immediately and contact the manufacturer or product agent.
- 7) If the purchaser purchases this product for use by minors, the purchaser shall provide them with detailed instructions and warning information before use. If the Purchaser fails to fulfill the obligation of explanation, the manufacturer shall not bear any responsibility for the consequences caused by improper use or misuse by minors (this mobile power bank is not suitable for people with low physiological, perceptual and mental abilities (including children) It is also not recommended for people who lack relevant experience and knowledge, unless there is a special person in charge of their life safety to supervise or guide them to use this equipment. Children should be taken care of to ensure that they do not use mobile power as toys)
- 8) The battery shall be stored in a cool and dry environment without charging. The battery must be discharged before mass storage or transportation.
- 9) If the battery is used under extreme conditions, the service life of the battery may be shortened, such as extreme temperature, deep cycle, extreme overcharge and over-discharge.

## 8. Product dimension drawing:



## 9. Precautions for power bank:

### **DANGER!**

- 1). Do not put the power into water or get it wet!
- 2). It is forbidden to charge the power bank under the fire source or extremely hot conditions! Do not use or store the power bank near the heat source (such as fire or heater)! If the power bank leaks or emits peculiar smell, it shall be removed from the place close to the open fire immediately;
- 3). Please use a special charger!
- 4). Do not connect the positive and negative poles reversely!
- 5). Do not connect the power bank directly to the wall socket or vehicle cigarette lighter socket!
- 6). Do not put the power into the fire or heat the power!
- 7). It is forbidden to short circuit the positive and negative poles of the power bank with wires or other metal objects, and it is forbidden to connect the power bank with necklaces, hairpins or other objects  
Transport or store metal objects together!
- 8). It is forbidden to pierce the power bank housing with nails or other sharp objects, and it is forbidden to hammer or step on the power bank!
- 9). It is forbidden to impact, throw or subject the power bank to mechanical vibration
- 10). Do not directly weld the power terminals!
- 11). Do not disassemble the power bank in any way!
- 12). Do not put the power bank into the microwave oven or pressure vessel!
- 13). It is forbidden to use in combination with primary power bank (such as dry battery) or power bank of different capacity, model and variety!
- 14). If the power bank emits peculiar smell, heating, deformation, discoloration or any other abnormal phenomena, it shall not be used; for example

If the power bank is in use or charging, take it out of the appliance or charger immediately and stop using it!

## **FCC Information**

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 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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### **Radiation Exposure Statement**

This device complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be

co-located or operating in conjunction with any other antenna or transmitter. During the operation of device a distance of 15 cm surrounding the device and 20 cm above the top surface of the device must be respected.