

User Manual

Sum DROP & DOCK
Wireless Charging System

FCC ID: 2AXT9-P0

This product is a portable mobile power supply, which is mainly used for powering and charging various digital products such as various brands of mobile phones, IPAD, PSP, MP3/MP4, palmtop computers.

1. The built-in battery is charged with a three-stage constant voltage and constant current charging method. The charging input terminal of the product is Type-C interface; the output port is TYPE-C and wireless charging. Support PD3.0/PD2.0 fast charging input Support wireless charging output.
2. TYPE-C intelligent recognition. When a mobile phone is inserted into the fast charging port, the product will automatically turn on the output, charge the device, and shake hands with the powered device. When the powered device meets the 1A or 2.4A requirements, the product will charge. The output will automatically output the corresponding optimal output current.
3. When a device is connected to the Type C port, the wireless charging will automatically enter the 5W output state and switch to a regular output. Only after Type-C turns off the output can the wireless charging 10W output be turned on.
4. Hidden LED power display, with soft brightness, will not be dazzling when used at night, and will not affect sleep.
5. Use safe and reliable, built-in intelligent charge and discharge management chip, battery overcharge protection, battery over discharge protection, output over current protection, output short circuit protection, mobile phone full power protection and other multiple intelligent protection functions.
6. Low self-consumption of about 150 microamperes, long standby time.

Product Information:

item	Specification
Capacity	battery capacity, 3.7V-5AH, 18.5WH
Battery type	Lithium polymer battery, 955565, 5000mAh
Output port	P0:Type C *1 Wireless charging *1
input port	D0: TYPE-C*1
Rated output	Wireless output: 5W/7.5W/10W Type C:5V/2A
Indicator light	D0: 1LED cool white Wireless charger: 12LED warm white FOD: 12LED blue
Product size	
weight	

Built-in battery

Battery description	battery capacity	instruction manual
Polymer battery	≥5000mAh (single cell)	Fully charged by standard charging method, 0.2C discharged to 3.0V cut-off

Charging method: Three-stage charging

Charging mode	recharging current	instruction manual
Precharge	≤400mA	Battery voltage≤3.0V
fast charging	2000mA (typical value)	Battery voltage 3-4.0V, input port voltage is 5V
Constant voltage charging	The charging current keeps decreasing with the increase of battery voltage, and finally the charging current is turned off	Battery voltage 4.0-4.2V

Charging method and status description

When the external 5V/DC power supply is connected to the product through contact copper or Type C, the product will charge the built-in battery, and the four white LEDs (25%, 50%, 75%, 100%, respectively) will use the current power The way the light flashes shows the current built-in battery power, as shown in the table below:

When the product is charging	The first light flashes, two, three, and four lights are off		Battery power below 25%
	The first light is always on, the second light is flashing, three or four lights are off		Battery power 25%-50%
	the first. Two or two lights are always on, the third light is flashing, and the fourth light is off		Battery power 50%-75%
	The first, second, and third lights are always on, and the fourth light flashes		Battery power 75-100%
After the product is full	Four lights are always on		full

Battery check under normal state-click the button:

Battery check	One white light is always on, the other three are off		Battery level 0%-25%
	Two white lights are always on, the other two are off		Battery power 25%-50%
	Three white lights are on, the other is off		Battery power 50%-75%
	Four white lights are always on		Battery power 75%-100%

Battery display when discharging

Battery check	One white light is always on, the other three are off		Battery level 0%-25%
	Two white lights are always on, the other two are off		Battery power 25%-50%
	Three white lights are on, the other is off		Battery power 50%-75%
	Four white lights are always on		Battery power 75%-100%

Wireless charging instructions

When the wireless charging is turned on and the mobile phone/load is connected, the wireless charging indicator (the frequency of the white breathing light is 2.5 seconds a breathing cycle) When there is a metal foreign body in the position of the wireless charging coil, and the size is larger (more than 1 yuan coin Diameter), the wireless charging circuit will be shown as foreign matter, and the wireless charging output will be stopped (the blue light abnormal indicator will alarm until the foreign matter is removed).

Button function definition: Click to turn on the wireless charging by default, click again to turn off the whole machine, and double-click to turn on or off the wireless charging indicator.

Protection function

Short output

If the USB output terminal is short-circuited due to improper use or other factors, the product will automatically turn off the output to protect the charged device and the product itself. When the short-circuit is removed, there is no need to charge and activate.

Output overcurrent protection

If the output current of the USB port reaches 3.2-3.8A due to improper use or other factors; the product will turn off the output to protect the safety of the device. After the overcurrent status is removed, short press the button to start the output.

Built-in battery protection

Overcharge software protection	4.2V+/-0.05V
Overcharge independent hardware protection	4.28+/-0.05V
Over-discharge software protection	2.80-3.2V
Over-discharge independent hardware protection	2.4+/-0.1V

Environmental adaptability

ITEM	Specification	Min	Typ	Max
Operating Temperature	Environmental temperature around the product normal work	-10	25	40
Storage	1 year	-20	25	40

Temperature	3 month	-20	25	40
	1 month	-20	25	40
Operating humidity	Environmental humidity around the product normal work	10%	70%	90%
Storage humidity	Storage temperature product Storage humidity product doesn't work	5%	70%	90%

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

NOTE:

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.

FCC Statement:

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.

RF exposure compliance statement:

This device has been evaluated to meet the general RF exposure requirement

NOTE: This device complies with part 18 of the FCC Rules.

Information to the user.

1. The device has potential interference, but the interference is very small and meets the requirements of the FCC rule
2. Equipment system maintenance is simple, please refer to the manual
3. The user can take simple measures to correct the interference. Such as staying away from interference sources, turning off interference sources, etc.