

# VEVOR

**Affordable. Reliable. Home Improvement.**

**2400W PORTABLE POWER STATION**

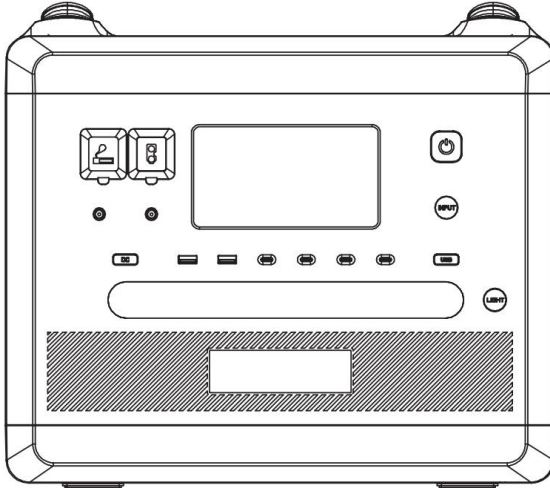
**Model:Q2400Pro**

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## 2400W PORTABLE POWER STATION

**MODEL:Q2400Pro**





This is the original instruction, please read all manual instructions carefully before operating. VEVOR reserves a clear interpretation of our user manual. The appearance of the product shall be subject to the product you received. Please forgive us that we won't inform you again if there are any technology or software updates on our product.

Dear Sir, thank you very much for purchasing and experiencing the Q2400Pro portable power station. Please read the instructions carefully before using this product for correct use. According to the transportation requirements of battery products, this product has less than 30% of power left when it leaves the factory. Please fully charge the product after unpacking it to start your Q2400Pro experience journey.

# PRECAUTIONS FOR USE

1. Please avoid long-term storage and use of this product in environments with high temperature and humidity or direct sunlight to avoid shortened battery life and other failures. The product should not be close to the fire source, otherwise it may cause a major fire or accident.
2. This product must not be disassembled or modified. Improper operation may cause product malfunction or even fire.
3. Be careful not to drop the product from a high place or let it fall to prevent damage.
4. Please store or use this product out of the reach of children, otherwise the product may be dropped or collided and may cause bodily injury to children.
5. Please use our original accessories, we will not guarantee the defective products caused by the use of non-original accessories.
6. Please directly plug in the wall socket to charge the product, do not use extension cords or cable taps, otherwise there is a risk of damage to the extension cords and cable taps or even a fire; If the extension socket is plugged in to charge this product, please do not connect other electrical appliances to this socket, otherwise the household energy meter may trip.
7. When the product is not in use or idle, please turn it off and unplug the power cable. If it needs to be idle for a long time, please consume the product from a fully charged state to an uncharged state, then recharge it to about 50% of the battery level and store it. In order to prolong the life of the product, please take three months as a cycle, operate and keep it in this way.
8. If the product reaches the end-of-life condition, please dispose of or recycle the product according to local laws regulations.

# AC Output Parameters

Electric Socket	AC Output	AC Total Output
 US	120V 50Hz/60Hz	2400W
 JP	100V 50Hz/60Hz	2400W
 CH	220V 50Hz	2400W
 UK	220V~240V 50Hz/60Hz	2400W
 EU	220V~240V 50Hz/60Hz	2400W
 KR	220V 60Hz	2400W

# Packing List



Portable Power Station



AC Cable



User Manual



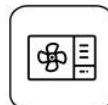
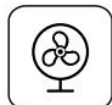
XT90 to MC4

## Product Introduction

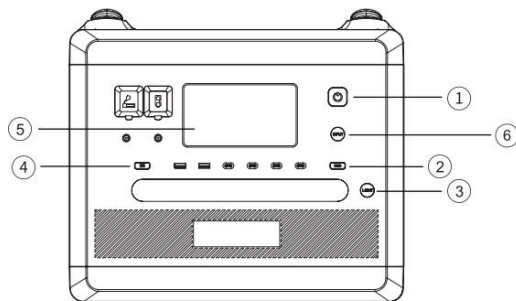
This product is a portable power supply device with built-in battery pack and charging/discharging function. It includes both AC output interface and DC output interfaces such as USB output, cigarette lighter output, DC output, and has display, interface control, protection, alarm and other functions. This product can be charged through AC power, solar panels and car charging, and can be used with up to two battery packs, with a maximum capacity of up to 6480Wh.

The following are the main features of this product:

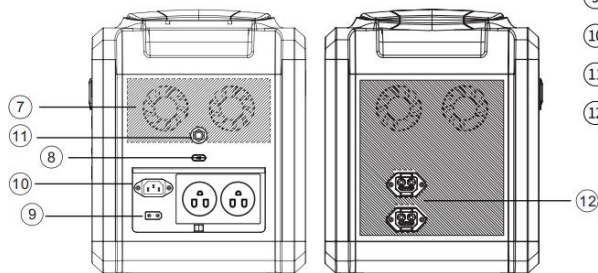
- It uses lithium iron phosphate batteries, with a battery energy of up to 2160Wh, and can reach a maximum of 6480Wh after capacity
- Pure sine wave output can meet the needs of daily electronic devices and small appliances.
- Using two-way fast charging technology, the product can be fully charged in nearly 3 hours.
- USB-A, Type-C, PD3.0, DC5521, XT60, cigarette lighter socket and other rich output interfaces to meet many application scenarios.
- With UPS function, the switching time is less than 10ms, which can truly achieve seamless switching.
- Multiple protection mechanisms including battery, circuit, structure, etc. ensure product safety



# Button Function Introduction



- ① Power ON/OFF Button
- ② USB ON/OFF Button
- ③ Light Button
- ④ DC ON/OFF Button
- ⑤ LCD Screen
- ⑥ Input Power Adjustment Button
- ⑦ Cooling Air Duct
- ⑧ AC Switch(Manually Switch to 50/60Hz)
- ⑨ XT90 Input Port
- ⑩ AC Input
- ⑪ Overload Protection Button
- ⑫ Parallel Port



## ① Main power switch

Instructions: Press and hold the power button for 3 seconds to wake up the system, turn on the LCD display, and press and hold again for 3 seconds to turn it off.

## ② USB ON/OFF Button

Instructions: Short press the USB button to turn on the USB output port, and short press it again to turn it off.

 USB-A × 2	 TYPE-C × 3	 TYPE-C × 1
QC 3.0	PD-20W	PD-100W

## ③ Light Button

Instructions: Short press the Light button, the LED light is on, short press again, the LED light enters the SOS mode, short press in turn, enter the strobe mode, and finally the LED light turns off (LED in any mode, long press the LIGHT button for  $\geq 1$  second , directly turn off the LED light).

#### ④DC ON/OFF Button

Instructions: Short press the DC button to turn on the DC output port, and short press it again to turn it off.

 DC Output X2	 Cigarette lighter X1	 XT60×1
12V/3A	12V/10A	12V/25A

#### ⑤LCD Screen

Display the product's battery level and usage status tips.

#### ⑥Input Power Adjustment Button

Instructions: :When this product is connected to the mains for charging, you can manually adjust the input power via the button according to actual needs, and each light press will switch to the next gear. Please be noticed that low power charging is beneficial to extending the battery life.

#### ⑦Cooling Duct

When the product reaches the temperature threshold set by the system, the cooling fan will run automatically, accompanied by a certain fan sound (fan sound below 60dB is normal). Do not block the cooling suction/exhaust ports during use and do not place objects within 30cm of the unit.

#### ⑧AC Switch(Manually Switch to 50/60Hz)

Please press the AC button to turn on the AC output function. Since the AC output frequency may differ in different regions, if you need to switch the frequency, operate as follows: Press and hold the AC button for 3 seconds to enter the frequency switching mode, the 50Hz or 60Hz icon will be flashing on the display.press the AC button briefly again to select 50Hz or 60Hz; the icon stops flashing the display shows 50Hz or 60Hz, and the switching is successful. Note: In UPS mode, the frequency cannot be changed.

#### ⑨XT90 Port

This interface supports solar panel input or car charger input, For more details, please refer to page 13 “Solar Panel Connection” page 14 “Car Charging” of this document.

## ⑩ AC Input

Connecting the product to a household outlet, it can realize 1100W(220V-240V) fast charging, The power can be fully charged from 0 to 100% in only 3 hours. When charging in this way, Please note the following points.

\*Connect the product directly to a wall outlet, etc, and avoid using extension cords or cable taps, as there is a risk of damage to extension cords and cable taps, or even fire.

\*When connecting the plug to charge this product, please do not connect any other electrical appliances to the plug, otherwise the home electricity meter may be tripped.

## ⑪ Overload Protection Button

If the power supply voltage is unstable due to lightning or other reasons, and there is a large voltage input at the AC terminal, In order to protect the product, overload protection function (safety circuit breaker) will be activated to cut off the AC input port. Restore the AC input function of this product in the following order.

(1) Turn off the power button, Unplug all ports.

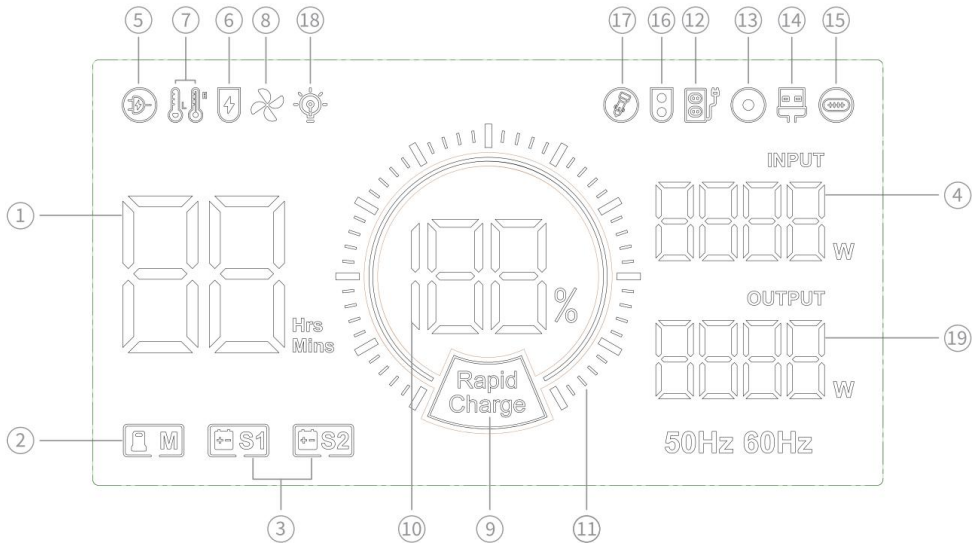
(2)After checking that there is no abnormality in each part, turn on the power button.

(3)Press the overload protection button, turn on the AC line to restore AC input.

## ⑫ Battery Pack Interface

The extension is realized by connecting to the host computer via a parallel cable. The interface can realize up to 2800W input and output.

# Introduction of Display Interface







- |                                  |                                    |                        |                                    |
|----------------------------------|------------------------------------|------------------------|------------------------------------|
| 1. Remaining usage/charging time | 6. XT90 interface                  | 11. Power progress bar | 16. XT60 (12V) output              |
| 2. Host indicator                | 7. High/low temperature protection | 12. AC output          | 17. Cigarette lighter (12V) output |
| 3. Slave indicator               | 8. Fan status                      | 13. DC (12V) output    | 18. LED light                      |
| 4. Total input power             | 9. UPS (lights up ⑤ and ⑫)         | 14. USB output         | 19. Total output power             |
| 5. AC charging                   | 10. Power percentage               | 15. PD output          |                                    |

## Screen display description

**Power display:** When the product is in the charging state, the power progress bar rotates clockwise in the form of a marquee, and the power percentage gradually increases; when the product is in the discharging state, the power percentage gradually decreases until it reaches 0. **Input and output status:** When the product is working, the total input power, total output power and the cursor of the corresponding working area will be displayed on the screen. **Alarm prompt:** See the following troubleshooting table for details.

# Troubleshooting

Phenomenon	rationale	Treatment
 <p>Any of the above output icons blinks and beeps.</p>	<p>Output overrun/short circuit</p>	<p>Remove the load, and press the switch in the corresponding area of the icon, to clear the alarm.</p>
 <p>Flashing of the Temperature warning icon, Beeping.</p>	<p>The temperature of the product is too high or too low</p>	<p>Remove the product from the charging state, and remove all loads, turn the power supply OFF, wait for the unit to return to a suitable operating temperature, to clear the alarm.</p>
 <p>The mains marking is flashing, Can't charge.</p>	<p>Poor charging cable connection</p>	<p>Confirm the connection status of the cord and the power supply energization</p>
 <p>Parallel blinking.</p>	<p>parallelism failure</p>	<p>Charge a product with a low battery capacity or discharge a product with a high battery until (until the difference is less than 80%), and reconnect.</p>

# UPS Mode

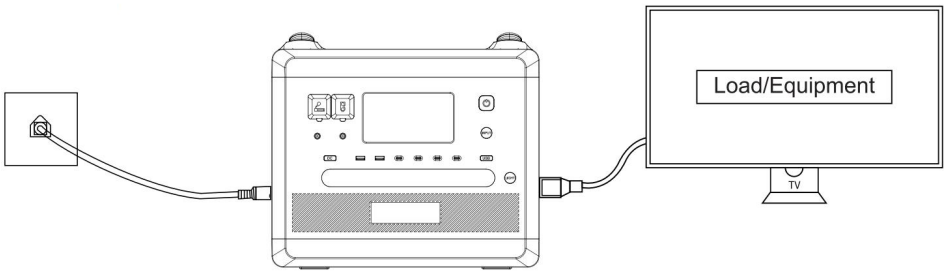
## ●UPS function

This product has the function of backup uninterruptible power supply. The usage and operation precautions are as follows:

As shown in Figure 1 below, connect the product between the socket and the electrical appliance, and the product power and AC switch are both in the ON state then the product enters the UPS working mode. The AC power in the socket supplies power to the electrical appliance through the bypass circuit, and also charges this product.

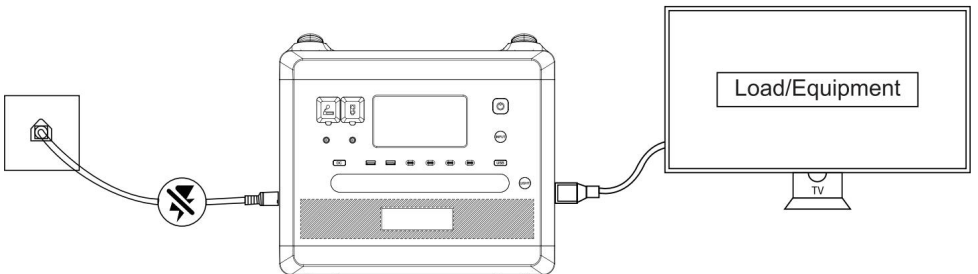
In this working state:

The rated power of the electrical appliance must be less than 2000W(only 220V-240V), otherwise the overload protection may be triggered.



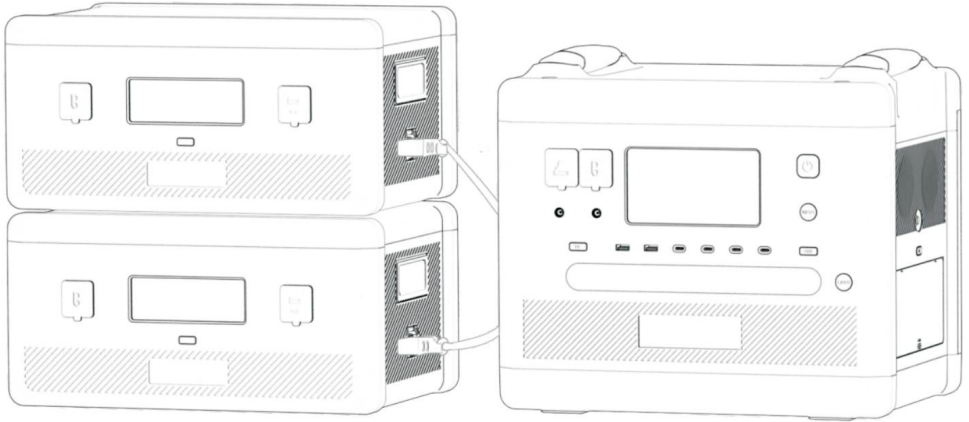
(Figure 1)

As shown in Figure 2 below, when the AC power at the socket is disconnected, the bypass output inside the product stops working and the product switches to the bidirectional inverter circuit within 10ms. The output of this circuit supplies power to the electrical appliances, ensuring that the electrical appliances are not disconnected and work normally during the process.



(Figure 2)

# Battery Pack Connection Instructions



The host can connect up to two battery packs through the parallel line, with a maximum capacity of up to 6480Wh. Please connect the product when the host and battery pack are turned off. After the connection is completed, the S1 and S2 connections will be displayed on the display. After the parallel connection is successful, the system can start charging or discharging. When charging and discharging after parallel connection, the charging and discharging power will be allocated according to the amount of electricity.

When charging, the charging power is small when unit the electricity is high, and the output power is large when the unit electricity is high when discharging. After the parallel connection is successful, if there is no external charging, the host and the slave may exchange energy, and the display will show the power.

## Precautions

- It is forbidden to plug or unplug the parallel cable when the product is working. Please connect or disconnect the product when the product is turned off.
- It is forbidden to short-circuit the parallel port of the host.

## Connection of Solar Panels

Under the condition of sunlight, this product can be connect- ed to the solar panel and realize charging of the product. The charging power is determined by the conditions such as sunlight and weather.

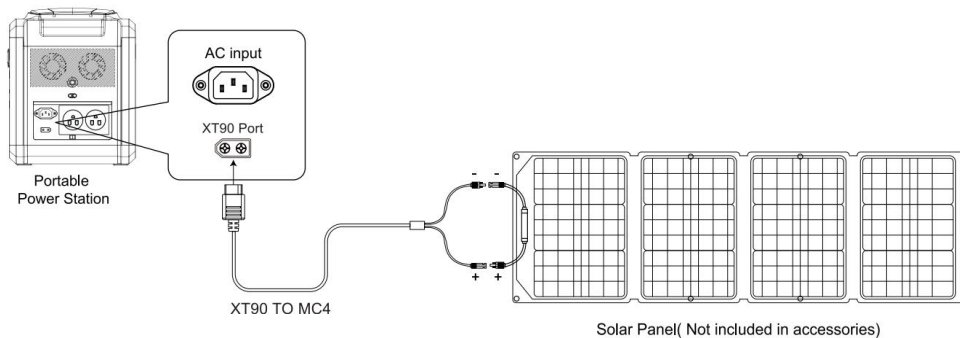
Under this charging mode, It supports solar panel input within 500W, and the input voltage cannot exceed 48V, other-wise the product abnormality caused is not covered by the warranty:

We recommend the following two charging solutions:

Solar panel charging

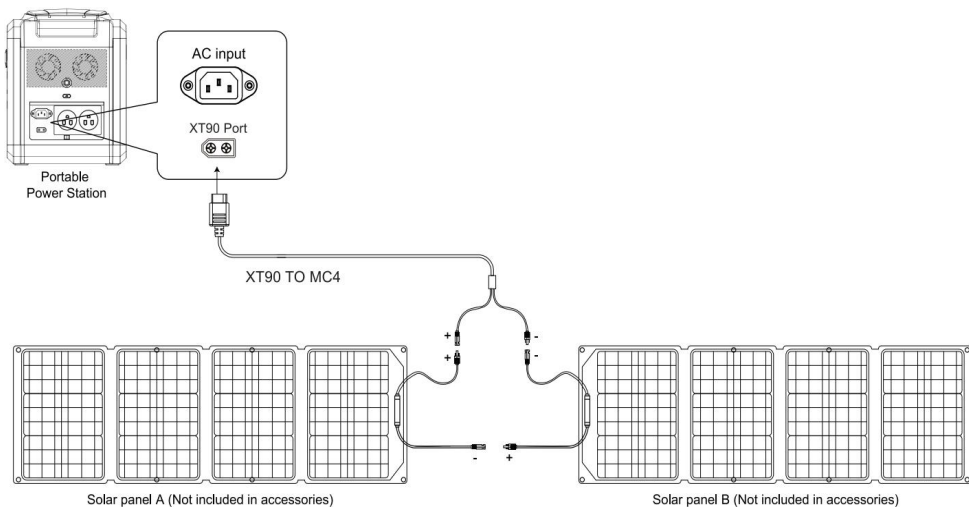
### Option one

Portable Power Station Charging Area



### Option two

Portable Power Station Charging Area



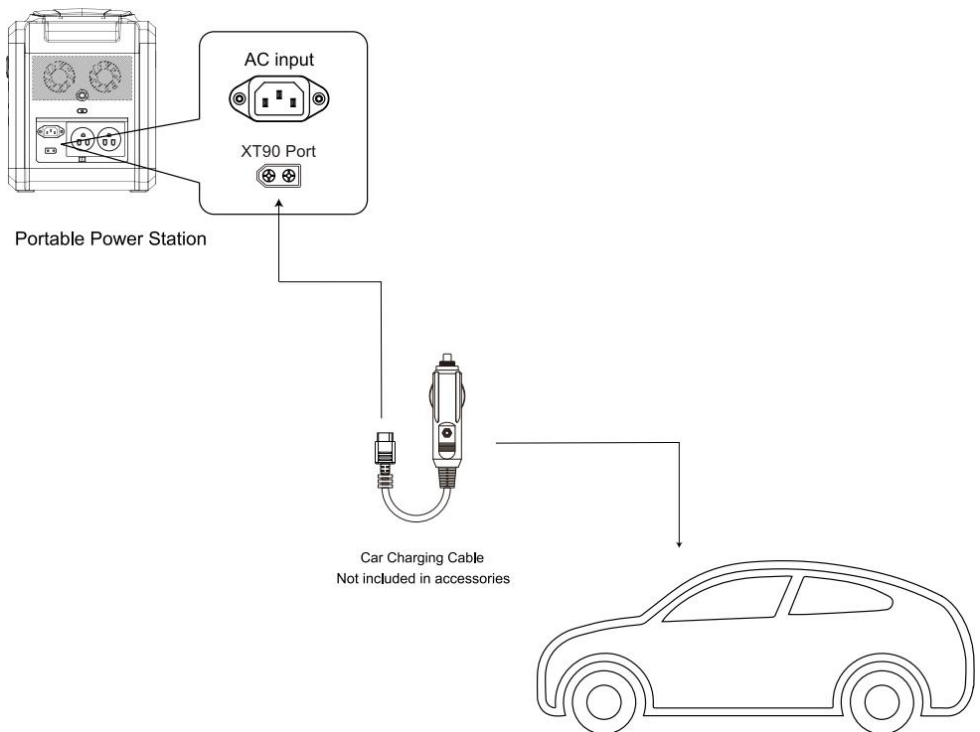
# Car Charging

When the car is starting, connect the car charger port on the car and this product through the car charging cable to charge this product. The connection method is shown in the figure.

This product supports 12V car charger/24V car charger charging. When charging in this way, please pay attention to the following two points:

- ※Please do it when the car is started, otherwise the car battery may be exhausted.
- ※The charging power of the car is usually in the range of 90W-120W, and the charging time is longer.

If fast charging is required, it is recommended to use AC wall socket to charging.



# Product Specifications

Product Name	Q2400Pro 2400W Portable Power Station
Product Size	L*W*H=389x280x343mm
Product Weight	21.8kg
Battery Capacity	2160Wh(3*2160Wh MAX6480Wh)
AC Charging	220V-240V 1100W max
XT90 Input	11.5-48V /500W max
AC Output	220V-240V rated 2400W; pure sine wave
USB-A Output	(QC3.0 18W)X2
Type-C ①Output	(PD20W) X3
Type-C ②Output	(PD100W)*1 Includes PD3.0 protocol
DC5521 Output	12V/3A*2
XT-60 Output	12V/25A
Car Charging Output	12V/10A
Shut down Current	<500 $\mu$ A
Operating Temperature	-10~40℃
Environmental Humidity	≤90%(RH)
Cycle Life (computing)	>3500 times

## Battery Specifications

Cell Type	LiFePo4
Rated Voltage of Single Battery	3.2V
Rated Capacity of Single Battery	15Ah
Battery Pack Rated Voltage	48V
Battery Pack Output Voltage Range	36V-54V
Rated Capacity of Battery Pack	2160Wh

# Disclaimer

Before use, please read the user manual of this product to ensure that you fully understand it before using it correctly. After reading, please keep the manual properly for future reference. If you do not operate this product correctly, you may cause serious harm to yourself or others, or cause product loss and property loss. Once you use this product, it is deemed that you have understood, recognized and accepted all the terms and contents of this document. The Users commit to be responsible for their own behavior and all consequences arising therefrom. Our company does not bear any losses caused by the user's failure to use the product in accordance with the "User Manual".

In compliance with legal provisions, our company has the final right of interpretation of this document and all related documents of the product. If there is any update, revision or termination, no further notice will be given. Please visit our official website for the latest product information.

## **FCC Information:**

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

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:



- 1) This product may cause harmful interference.
- 2) This product must accept any interference received, including interference that may cause undesired operation.

**WARNING:** Changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the product.

**Note:** This product 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 product generates, uses and can radiate radio frequency energy, and if not installed and used in



	<p>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 product does cause harmful interference to radio or television reception, which can be determined by turning the product off and on, the user is encouraged to try to correct the interference by one or more of the following measures.</p> <ul style="list-style-type: none"> <li>· Reorient or relocate the receiving antenna.</li> <li>· Increase the distance between the product and receiver.</li> <li>· Connect the product to an outlet on a circuit different from that to which the receiver is connected.</li> <li>· Consult the dealer or an experienced radio/TV technician for assistance.</li> </ul>
	<p><b>CORRECT DISPOSAL</b></p> <p>This product is subject to the provision of European Directive 2012/19/EU. The symbol showing a wheeled bin crossed through indicates that the product requires separate refuse collection in the European Union. This applies to the product and all accessories marked with this symbol. Products marked as such may not be discarded with normal domestic waste, but must be taken to a collection point for recycling electrical and electronic devices.</p>
 <p>Li-Ion</p>	<p><b>BATTERY DISPOSAL</b></p> <p>To minimize hazards to health and the environment at the end of this product's life, laws dealing with Waste Electrical and Electronic Equipment (WEEE) and The Waste Battery Directive require you to dispose of this product at a suitable collection facility where it will be sent in order to remove the batteries and for appropriate recycling. Please contact your</p>

	local authorities for more details on recycling and safe disposal of these in your area.
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