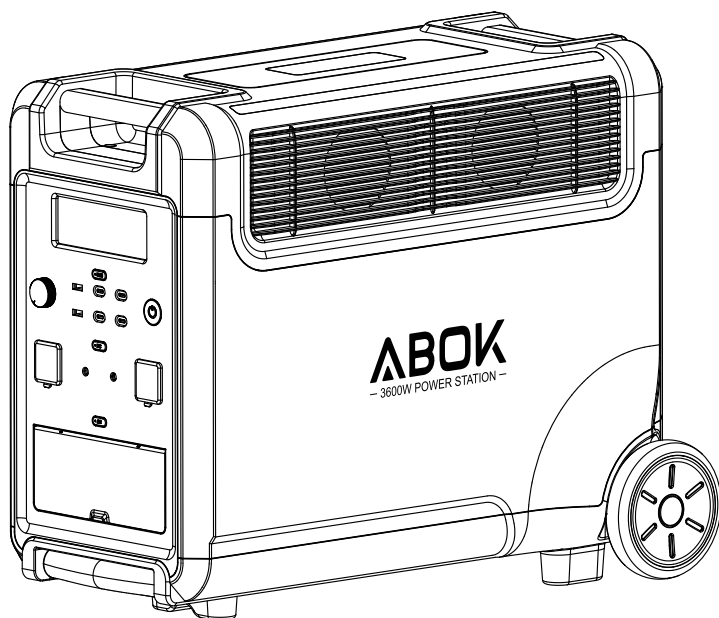


# Portable Power Station

## User Manual



Dear Customer, thank you very much for purchasing and experiencing the 3600W portable power station. Before operating this product, please carefully read the user manual for proper operation.

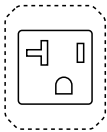
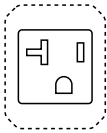
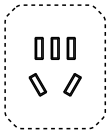
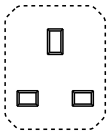
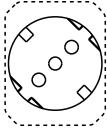
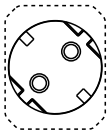
In accordance with the transportation regulations of international customs for battery products, the battery level of this product is less than 30% when it is shipped from the factory. Please fully charge the product after unpacking it to start the 3600W experience tour.



## Precautions For Use

1. Please avoid long-term storage and use of this product in environments with high temperatures and humidity or direct sunlight. This helps prevent shortened battery life and other potential failures of the product. 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.
4. Please store or use this product out of the reach of children, otherwise the product may be dropped and may cause bodily injury to children.
5. Please use our original accessories, and we will not provide warranty coverage for the defective products caused by the use of non-original accessories.
6. Please plug the product directly into a wall socket to charge it. 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 used to charge this product, please do not connect other electrical appliances to this socket, otherwise the household 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 discharge 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 scrap conditions, please discard or recycle the product in accordance with local laws.
9. Please keep the inner and outer carton packaging materials of the product intact to avoid additional packaging costs incurred due to after-sales issues.

# AC Output Parameter

Type of AC port	AC output
 US	120Vac 50/60Hz
 JP	100Vac 50/60Hz
 CH	220Vac 50Hz
 UK	220-240Vac 50/60Hz
 EU	220-240Vac 50/60Hz
 KR	220Vac 60Hz

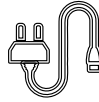
# Contents

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# Packing List



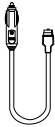
Portable Power Station



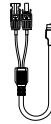
AC Charging Cable



User Manual



Cigarette Lighter Port to  
XT90 Cable



MC4 to XT90 Cable

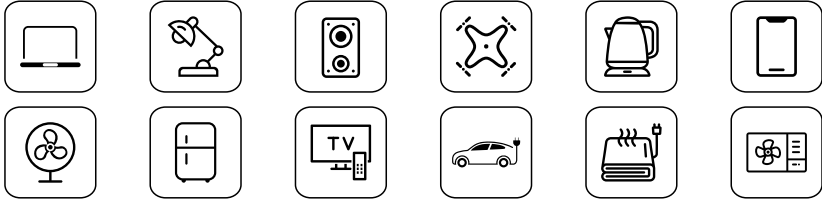
## Product Introduction

This product is a portable energy storage power system equipped with a high-safety LiFePO<sub>4</sub> battery. The base unit provides 3840Wh of capacity and can be expanded to a maximum of 11520Wh with two additional battery packs, offering sufficient energy for most daily household backup scenarios.

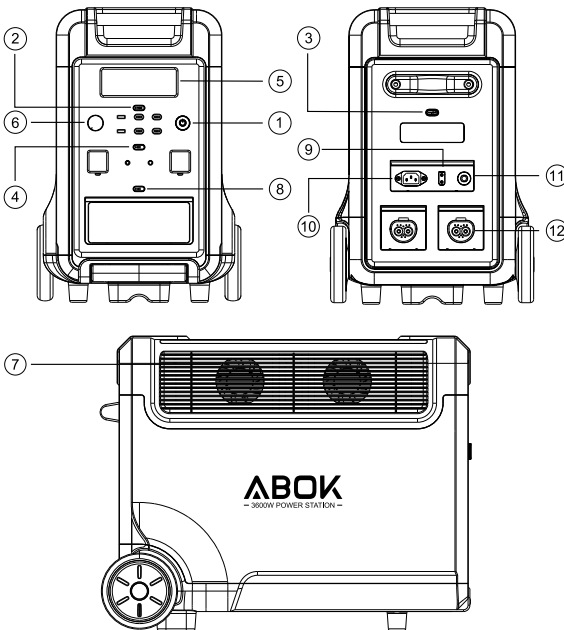
It delivers pure sine-wave AC output, ensuring compatibility with sensitive electronics and common household appliances. With bidirectional fast-charging technology, the unit supports AC fast charging that can fully recharge the system within 3 hours, while solar and vehicle charging provide flexible alternatives depending on input power.

The device offers a comprehensive set of output interfaces, including USB-A QC 3.0, USB-C PD (20W/140W), DC 5521, XT60, and a cigarette lighter port, enabling versatile application across various devices. It also integrates a display, APP control, multi-layer protection, and alarm functions to ensure both intuitive operation and reliable safety.

- In UPS mode, the switchover time is less than 10ms, which enables truly seamless switching.
- Multiple protection mechanisms, such as battery, circuit, and structure protection, guarantee the product's safety.



## Button Function Introduction



- ① Power Button
- ② USB Switch
- ③ LED Switch
- ④ DC Switch
- ⑤ LCD Screen
- ⑥ Input Power Adjustment Knob
- ⑦ Air Intake/Outlet
- ⑧ AC Switch
- ⑨ XT90 PV/CAR Input
- ⑩ AC Charging Port
- ⑪ Overload Protection
- ⑫ Extra Battery Port

### ① Power Button

Press and hold the power button for 3 seconds to turn on/off the whole system.

## ② USB Switch

Short-press the USB button to turn on/off.




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

## ③ LED Switch

Short-press the LIGHT button to turn on the LED light. Short-press again to switch modes in the following sequence: ON → SOS → Strobe → OFF. In any lighting mode, long-press the LIGHT button for  $\geq 1$  second to turn the light off immediately.

## ④ DC Switch

Short-press the DC button to turn on/off.

 XT60 ×1 12V⇒25A	 Cigarette Lighter Output×1 12V⇒10A	 DC 5521 Output×1 12V⇒3A
---	--	---

## ⑤ LCD Screen

Displays the product's battery level, input/output power, operating status, and system warnings.

## ⑥ Input Power Adjustment Knob

When the product is connected to AC mains for charging, this knob allows you to manually adjust the AC charging power. Rotating the knob clockwise increases the charging power, while rotating it counterclockwise decreases it. Using lower charging power can help reduce heat generation and prolong the service life of internal components.

## ⑦ Air Intake/Outlet

When the fans are working, please don't block the channels.

## ⑧ AC Switch

Press the AC button to enable or disable the AC output.

If you need to change the AC output frequency or voltage, follow the steps below:

### 1. Frequency Switching (50Hz / 60Hz)

- Press and hold the AC button for 3 seconds to enter frequency-setting mode.
- The 50Hz or 60Hz icon will flash on the display.
- Short-press the AC button to select 50Hz or 60Hz.
- When the icon stops flashing and remains steady, the setting is complete.

### 2. Voltage Selection

- Quickly press the AC button 10 times to switch the AC output voltage.

## ⑨ XT90 PV/CAR Input

This port supports solar panel input or car charger input. For details, please refer to "Connection of Solar Panels" on page 10 of this manual and "Car/Vehicle Charging" on page 11.

## ⑩ AC Charging Port

When charging the product through the AC charging port, please observe the following precautions:

- It is recommended to plug the product directly into a wall socket for charging. Avoid using extension cords or power strips, as they may overheat or cause damage.
- If an extension socket must be used, do not connect other high-power appliances to the same socket. Doing so may cause circuit overload and result in a breaker trip.

## ⑪ Overload Protection

When the AC input experiences abnormal voltage or current (such as lightning strikes, grid instability, or sudden surges), the overload protection function (safety circuit breaker) will automatically activate and disconnect the AC input to protect the product.

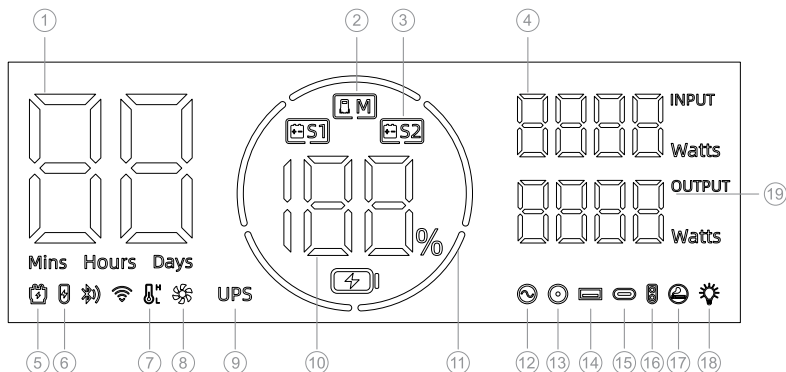
To restore the AC input, please follow the steps below:

- Turn off the product and disconnect all external cables, including the AC input cable.
- After confirming that there is no abnormal condition or damage to the product or cables, press the overload protection button to reset the protection.
- Reconnect the AC input cable.
- Turn the product back on and check whether AC charging is functioning normally.

## ⑫ Extra Battery Interface

Use a parallel cable to connect the Portable Power Station and Extra Battery Pack in parallel, so as to achieve capacity expansion.

# Introduction of Display Interface



- |                                    |                                |
|------------------------------------|--------------------------------|
| 1. Remain Using/Recharging Time    | 11. Battery Progress Bar       |
| 2. Host Logo                       | 12. AC Output                  |
| 3. Parallel Operation Logo         | 13. DC (12V) Output            |
| 4. Input Power in Total            | 14. USB Output                 |
| 5. Connected to the AC Mains       | 15. PD Output                  |
| 6. XT90 Port                       | 16. XT60 (12V) Output          |
| 7. High/Low Temperature Protection | 17. Cigar Lighter (12V) Output |
| 8. Fan Status                      | 18. LED Light                  |
| 9. UPS                             | 19. Output Power in Total      |
| 10. Battery Level Percentage       |                                |





## Screen Description

**Battery Level Display:** When the product is in the charging state, the battery progress bar rotates clockwise, and the battery percentage gradually increases; when the product's battery level is 0, the battery level percentage icon flashes.

**Input and Output Status:** When the product is working, the total input power, total output power and the icons corresponding to the working area will be displayed on the screen.

**Alarm Prompt:** See the following troubleshooting table for details.

# Troubleshooting Sheet

Phenomenon	Cause	Processing method
 <p>The above output icon flashes and beeps.</p>	<p>The output exceeds the standard or it's short-circuited.</p>	<p>Remove the load, and then short press the switch in the area corresponding to the icon to remove the alarm.</p>
 <p>The temperature warning icon flashes and beeps.</p>	<p>The temperature of the product is too high or too low.</p>	<p>Take the product out of the charging state, remove all loads, turn the power off, wait for the device to reach a suitable operating temperature, and then the alarm will be cleared.</p>
 <p>The icon of connecting to the AC mains flashes and the product cannot be charged.</p>	<p>The charging cable is poorly connected.</p>	<p>The overload protection function is enabled.</p>
 <p>The Parallel Connection Icon blinks.</p>	<p>Parallel failure.</p>	<p>Charge the power station with the lower battery level, or discharge the one with the higher battery level (until the power difference between the two is less than 80%), then reconnect them for parallel connection.</p>

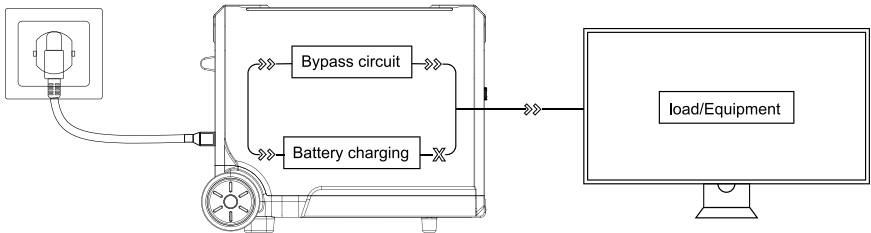
# UPS Mode

## • UPS Features

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

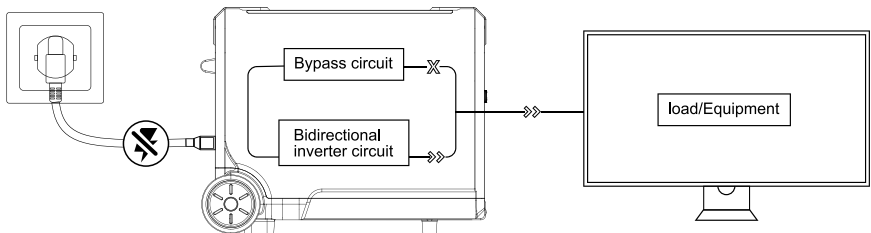
As shown in Pic.1 below, when the product is connected between the wall socket and the electrical appliance, and the power supply and AC switch of the product are in the ON state, the product enters the UPS working mode. The AC mains in the socket supplies power to the electrical appliance through the bypass circuit, and also charges the product. In this working state:

- 1.The rated power of the electrical appliance must be lower than 1500W(Only 100-120Vac), otherwise overload protection may be triggered.
- 2.The rated power of the electrical appliance must be lower than 2500W(Only 220-240Vac), otherwise overload protection may be triggered.



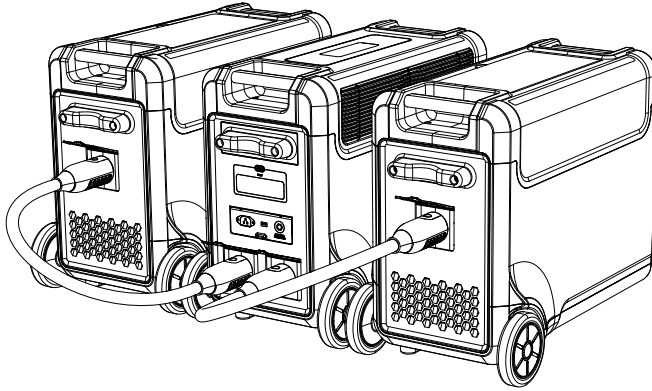
(Pic 1)

As shown in Pic.2 below, when the AC mains at the socket end is disconnected, the bypass output inside the product stops working, and the product switches to a bidirectional inverter circuit within 10ms, and the circuit outputs supply power to the electrical appliance to ensure that the electrical appliance is uninterrupted and works normally during the process.



(Pic 2)

# Battery Pack Connection Instructions



The portable power station can be connected to up to two battery packs through parallel cables, with a maximum capacity of up to 11520Wh. Please connect the product when the portable power station and extra battery pack are turned off. After the connection is completed, there will be icons of S1 and S2 connection displays on the screen. After connecting them successfully, the system can start charging or discharging. When charging and discharging after connection, the power will be distributed according to the left power of the product.

The charging power of the device with lower capacity is small when charging, and the output power of the device with higher capacity is high when discharging. If there is no external charging, energy exchange may occur between the portable power station and battery packs. When the left capacity of them is close, the charging process will stop, and the power will be show on the screen.

## Precautions

- Please do not plug and unplug the connecting cable when the products is under use, please connect or disconnect these two products when they are turned off.
- Please do not make the connecting ports of the portable power station short-circuited.

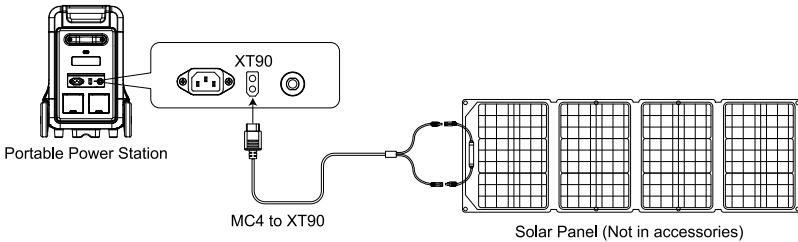
# Connection of Solar Panels

The power station can be connected to solar panels for charging.

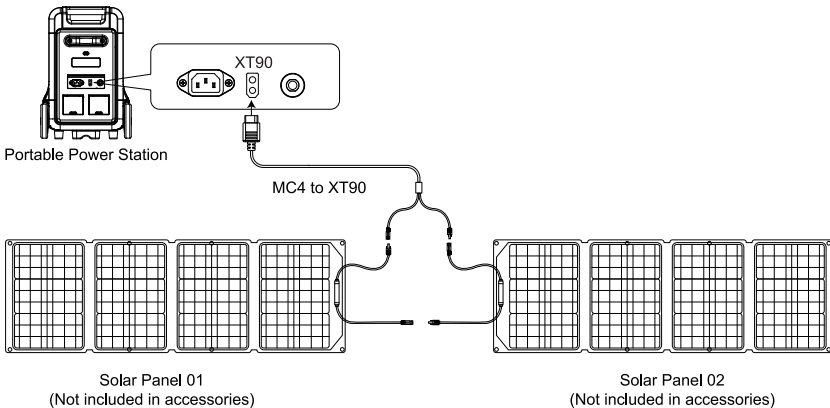
- ※ Solar panels' power depends on the weather and climate conditions.
- ※ If the total voltage of solar panels exceeds 160V, this overvoltage will damage the equipment and will void the warranty.

## • Solar panel charging

### Scheme One



### Scheme Two

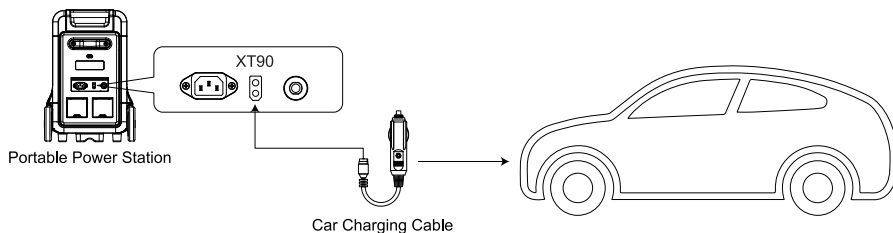


# Car/Vehicle Charging

The power station can be charged via the car's cigarette lighter using an ACC cable.

Turn on the power station, connect the ACC cable to the car's cigarette lighter and the XT90 interface on the side of the power station, start the car, and the screen will display the input power.

- ※ On-board charging should be carried out with the car engine turned on.  
If the engine is not turned on, the car's battery might run out.
- ※ Car charging is usually low power of 90-120W, and the charging time will be long.  
If you need a quick charge, it is recommended to charge it by mains.



# Product Specifications

Product Name	Portable Power Station
Dimension	L × W × H=550 × 321 × 464mm
Weight	42Kg
Capacity	3840Wh
AC charging	100V-120V, 1500W MAX; 220V-240V, 2200W MAX
XT90 Input	12-160Vdc 2000W MAX
AC Output	100V, rated 3300W; 120V, rated 3600W; 220V-240V, rated 3600W;
USB-A Output(x2)	QC 3.0 18W
USB-C ①(x3)	PD 20W
USB-C ②	PD 100W
DC 5521 Output(x2)	12V=3A
XT-60 Output	12V=25A
Cigarette Lighter Output	12V=10A
Shutdown Current	<500μA
Discharging Temperature	-10~40°C
Environment Humidity	≤90%RH
Battery Cycle Times	>4000 times

# Battery Specifications

Cell type	LiFePO4
Rated voltage of single battery	3.2V
Rated capacity of single battery	20Ah
Rated voltage of battery pack	48V
Output voltage range of the battery pack	40-54V
Rated capacity of battery pack	3840Wh

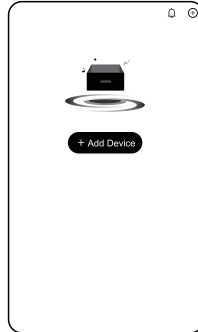
# Connecting to APP

## Step 01



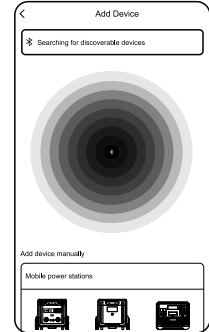
BrightEMS

## Step 02



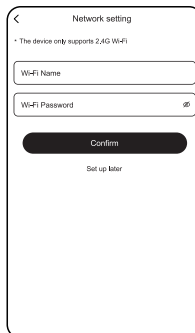
Add Device

## Step 03



Search By Bluetooth

## Connecting To Wi-Fi



Connect The Network

# Warranty Card

Warranty Card	
Name	
Address	
Model	
Serial Number	
Shopping Platform	
Tel	
E-mail	
Brand, Order Number	
Purchase Date	
Filling Date	
What Is The Product Failure	
Please Fill In All The Above Items.	

This product comes with a 2-year warranty upon purchase, and an additional 3-year warranty is also available.

- If there is a quality problem within the range of normal use, we provide warranty service.
- After purchasing our company's products, please keep this product together with invoices and other items. When maintenance services are needed, please provide information according to our company's request.
- In the case where the warranty is damaged or altered, and there is no stamp of the sales store on the warranty, the warranty service may not be provided.
- Damage caused by use beyond the normal range of use is not covered by the warranty service.
- The content of the warranty scope shall be subject to the content recognized by the company.
- Even within the scope of the warranty, defective products will sometimes be exchanged for products with the same function. The shipping and repair fees for products outside the warranty range shall be paid by the customer.
- Sometimes the specifications and functions of the product will be updated without prior notice.

# Disclaimer

Before use, please read the user manual of this product to ensure full understanding and correct use. After reading, keep the user manual properly for future reference. If you do not operate this product correctly, you could cause serious injury to yourself or others, or result in damage to the product and property. Once you use this product, you are deemed to have understood, recognized and accepted all terms and content of this document. Users undertake to be responsible for their own actions and all consequences arising therefrom. We are not responsible for all losses caused by the user's failure to use the product in accordance with the User Manual.

In compliance with the law, the company has the final right to interpret this document and all related documents of the product. If it is updated, revised or terminated without prior notice, please visit our official website for the latest product information.

# FCC Warning

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.

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

**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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.