

# 制作要求

## 此页不印刷

物料名称：T500中性（美规）说明书

物料编码：3.06.03.0100

成品尺寸：142x210mm

展开尺寸：284x210mm

钉装：骑马钉

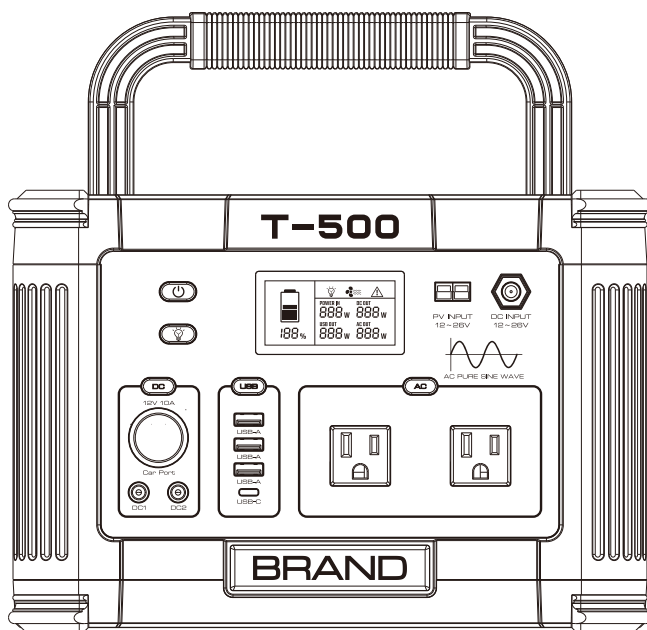
材质：铜版纸 哑光

版本：V1.1

日期：2022-02-21

# T-500

## USER MANUAL



### Thank you for purchasing T-500 portable power station

To make sure your personal safety, property security and user experience, please read this manual carefully before operating, and retain it for future reference.

### **⚠️ CHARGE FIRST!**

Before using your new Power Station T-500 or after storing it for more than 3 months, plug it into a suitable wall outlet until it is fully charged. Then you can start your exciting journey with it.

# Safety instructions

**Read the following instructions to ensure safety before using. Improper use may result in fire, property damage or personal injury.**



**INSTRUCTIONS PERTAINING TO RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS IMPORTANT SAFETY INSTRUCTIONS**

**WARNING** - When using this product, basic precautions should always be followed, including the following:

1. Read all the instructions before using the product.
2. To reduce the risk of injury, close supervision is necessary when the product is used near children.
3. Do not put fingers or hands into the product.
4. Use of an attachment not recommended or sold by power pack manufacturer may result in a risk of fire, electric shock, or injury to persons.
5. To reduce risk of damage to the electric plug and cord, pull the plug rather than the cord when disconnecting the power pack.
6. Do not use a battery pack or appliance that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion or risk of injury.
7. Do not operate the power pack with a damaged cord or plug, or a damaged output cable.
8. Do not disassemble the power pack, take it to a qualified service person when service or repair is required. Incorrect reassembly may result in a risk of fire or electric shock.
9. To reduce the risk of electric shock, unplug the power pack from the outlet before attempting any instructed servicing.
10. **WARNING - RISK OF EXPLOSIVE GASES.**  
To reduce risk of battery explosion, follow these instructions and those published by battery manufacturer and manufacturer of any equipment you intend to use in vicinity of the battery. Review cautionary marking on these products and on engine.
11. Have servicing performed by a qualified repair person using only identical replacement parts. This will ensure that the safety of the product is maintained.
12. **PERSONAL PRECAUTIONS**
  - a. Have plenty of fresh water and soap nearby in case battery acid contacts skin, clothing, or eyes.
  - b. Wear complete eye protection and clothing protection. Avoid touching eyes while working near battery.
  - c. If battery acid contacts skin or clothing, wash immediately with soap and water. If acid enters eye, immediately flood eye with running cold water for at least 10 minutes and get medical attention immediately.
  - d. Never smoke or allow a spark or flame in vicinity of battery or engine.
  - e. Be extra cautious to reduce risk of dropping a metal tool onto battery. It might spark or short-circuit battery or other electrical part that may cause explosion.
13. When charging the internal battery, work in a well ventilated area and do not restrict ventilation in any way.
14. Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.
15. Do not expose a power pack to fire or excessive temperature. Exposure to fire or temperature above 130°C may cause explosion. The temperature of 130°C can be replaced by the temperature of 265°F.



## Precautions for product charging

1. Do not charge the adapter via power supply systems that operate outside of AC100-240V.
2. Do not charge the unit via solar panel that operate voltage outside of DC12-26V.
3. Always use approved attachment charging cables. we take no responsibility for any damage caused by using other brand charging cable.
4. When charging, please place the product on the ground with no flammable or combustible materials around. To prevent accidents, never leave the machine unattended during charging.
5. Do not charge a product immediately after rated power output for longtime , because it maybe protected by the BMS.
6. DO NOT charge a product until it cools down to room temperature.
7. Once the unit is fully charged, unplug the adapt or charger.
8. Only charge, use the unit within an ambient temperature of 0 to 40 °C (32~104°F).



## Product storage and transportation

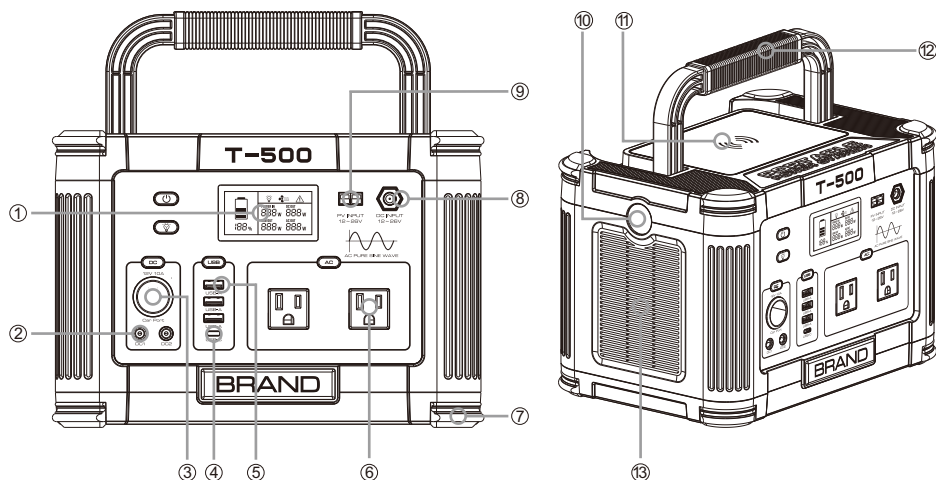
1. Please keep the product away from children's reach. If a child accidentally swallows certain parts, seek medical attention immediately.
2. If a warning of insufficient battery power appears, please charge the battery before storing.
3. Please store the product in a dry environment. Do not place the product where it may come into contact with water or other liquid.
4. Please ensure that no small metal objects fall on the product or around the product storage.



## Product maintenance

1. Do not store the product in an environment below -15°C or above 45°C.
2. If the battery is not used for a long time, the battery life may be shortened.
3. Fully charge and discharge at least once every 3 months to ensure battery life.

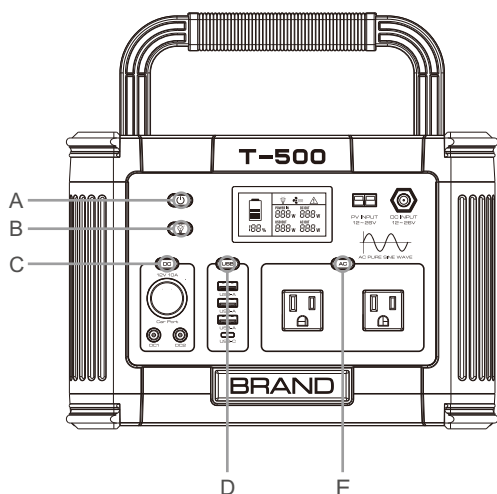
## Feature details



- |                            |                        |                                    |
|----------------------------|------------------------|------------------------------------|
| ① LCD Screen display       | ⑥ AC output            | ⑪ Wireless charger                 |
| ② DC 5525 output           | ⑦ Anti-collision angle | ⑫ Folding handle                   |
| ③ Cigarette lighter output | ⑧ DC Input             | ⑬ Air intake vent with cooling fan |
| ④ USB-C output             | ⑨ Photovoltaic input   |                                    |
| ⑤ USB-A output             | ⑩ SOS Mode & LED light |                                    |

**Note:** No user-serviceable parts inside.  
Recommended to fully charge the T-500 before use.

## Button feature



- A: Power ON/OFF Button  
B: SOS mode & LED light Button  
C: DC Output Power ON/OFF Button  
D: USB Output Power ON/OFF Button  
E: AC Output Power ON/OFF Button

## Function buttons

### Button A: POWER ON/OFF

Button A is the main switch. Press button A to turn on or off.

### Button B: SOS MODE& LED LIGHT

Function is available no matter the button "POWER ON/OFF " is activated or not as the following steps:

Firstly, press button B to turn on the LED light into the LED light mode.

Secondly, double click it to turn on the SOS mode.

Thirdly, press button B back to LED light mode, then press it again, the light will be turn off.

### Button C: DC OUTPUT ON/OFF

Make sure the button "POWER ON/OFF" is activated before pressing button C to turn on; Press button C to shut down the output(s) when not in use.

### Button D: USB OUTPUT ON/OFF

Make sure the button "POWER ON/OFF" is activated before pressing button D to turn on; Press button D to shut down the output(s) when not in use.

The USB-C cable of different devices need different endorsements of corresponding protocols, if the USB-C port doesn't work, try to use the AC adapter to charge .

### Button E: AC OUTPUT POWER ON/OFF

Make sure the button "POWER ON/OFF" is activated before pressing button E to turn on; Press button E to shut down the output(s) when not in use.

## WIRELESS CHARGER

Press " POWER ON/OFF" button to turn on the wireless charger. Press "POWER ON/OFF" button to shut down the output(s) when not in use.

## COOLING FAN

T-500 utilizes an internal cooling fan to ensure the product is operating within the appropriate temperature range. T-500, when it experiences a higher output load, will automatically turn on the fan during discharge or recharging, the fan may operate intermittently to keep internal temperature within operating range.

The fan will likely start when the AC circuit is activated to ensure proper operation.

## What it powers



Laptops (41.4Wh)  
Around  
10 Recharges



32" TV(60W)  
Around  
7 hours



CPAP without heated  
humidifier (15W)  
29 hours



GoPro (5.9Wh)  
Around  
74 Recharges



Floodlight(4W)  
Around  
110 hours



Mini Fridge(40W)  
Around  
11 hours



DJ Drone(89.2Wh)  
Around  
4.9 Recharges



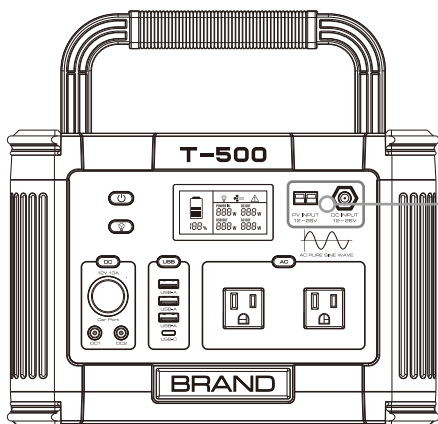
Smartphone(10Wh)  
Around  
44 Recharges



Switch(16Wh)  
Around  
27 Recharges

**+MORE**

## How to charge



From Solar Charger  
**120W 6-9 hours**  
depending on solar conditions



From Car Port 12V  
**7-8 hours when car running**



From Wall Charger 110V  
**6-7 hours**

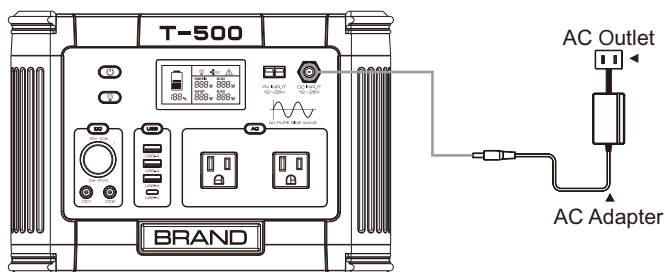


**Once it is fully charged, unplug the adapter or charger.**

Caution: Only one kind of charge modes is allowed when charging. Do not charge the product with solar charger and adapter or car charger at the same time!

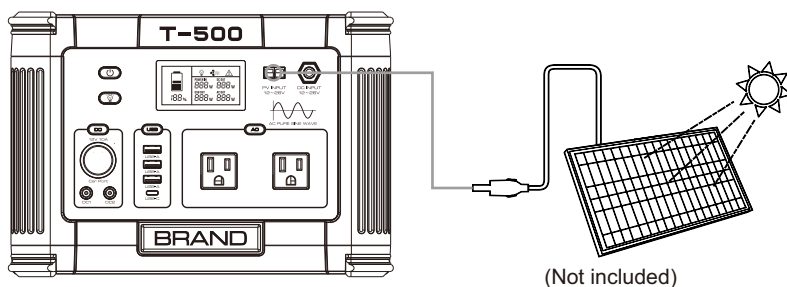
## Function buttons

It will take 6-7 hours to charge fully by using the AC adapter we provided.



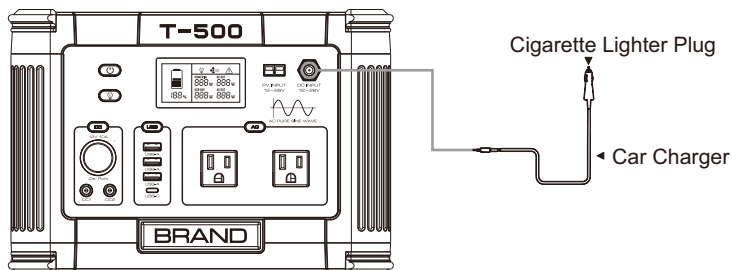
## Solar panel charging

1. DO NOT charge the unit with solar panel that operate voltage outside of DC12-26V
2. Place solar panels in direct sunlight as much as possible.
3. Support 60W/80W/100W/120W solar panels (not included),
4. the charging time is determined by the solar light intensity.

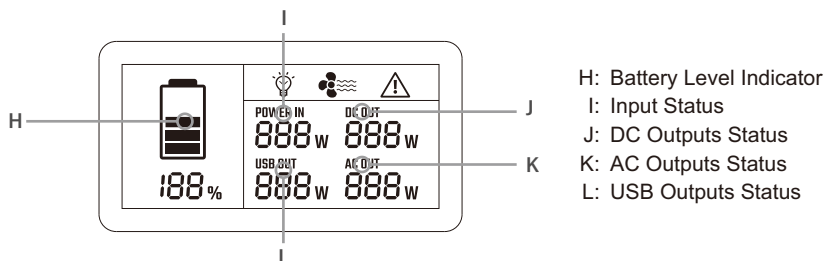


## 12V car charger charging

Use the car charge cable we provided to charge this unit. The time to full takes 7-8 hours. When the LCD display shows the battery power to 100%, it indicates that this unit is fully charged.



## LCD features



## Details displayed on LCD

### Battery level indicator :

The battery level is provided by percentage of battery charge corresponding to the number of bars and percentage displayed.

The segments in the battery level correspond to the current state of charge, 0-5% empty, 6-20% one segment, 21-40% two segments, 41-60% three segments, 61-80% four segments, and all five are lit when charge level is above 81%.

Provides the user live data of the energy on time based upon the energy entering or leaving the battery.

Highly recommend to fully charge T-500 when first use.

Higher battery level indicator show, more precise the data will indicate.

Please be aware that this value can adjust multiple times as the energy draw changes from the connected devices. This is evident during initial activation of ports with a connected device.

Recommended back to charge the T-500 when battery indicate less than 20%. Note that when you first plug in a power source, whether it's a solar panel or a wall charger, the T-500 may take a minute to detect and adjust its charge circuitry before it starts drawing power from the source.

**Input status:** The T-500 is capable of providing input energy in watts.

**DC output status:** The display will provide output watts of the DC port.

**AC output status:** The display will provide output watts of the AC port.

**USB output status:** The display will provide output watts of the USB port

### Power-saving mode:

when the device enters the input or output state, it will enter the screen-off mode after more than 20 seconds, which does not affect the normal operation of the device. When the output power of the device is less than 5W, the device will go into hibernation after more than 3 hours, and the input can be "awakened" when the input is charged or any button is pressed. When not in use, press the switch button to turn off the output.

## Operating instructions

### CHARGING T-500

Connect the provided AC wall power adapter to DC port, and charge it to full approx. 6-7 hours. When it is charging, the LCD Screen will be illuminated, and the LCD display will provide Battery level Indicator, T-500 is charged when the level is 100% and the current will get smaller and smaller until it is stop charging.

## Powering / charging devices with T-500

The output port will not work until the appropriate button is pressed to activate the output ON/OFF button C/D/E. When it was activated, the LCD display will turn on and it will display the details of the power of input or output. The LCD Screen will automatically shut down when no outputs are activated.

### Pass-through charging

The advanced battery management system of the T-500 allows it to charge a connected device via DC output & USB output while charge the T-500.

**⚠ Do not connect AC electrical equipment while charge the T-500.**

### OVERLOAD

If an overload occurs on the output, T-500 will:

Automatically turn off AC Output power.

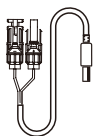
The indicator light of LCD Screen still illuminated.

DC output status still the same status as usual.

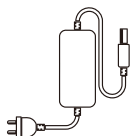
Do as following:

Check the output power of the load, unplug it.

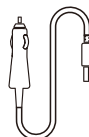
## T-500 accessory list



MC4-7909  
connector cable



AC 100-240V wall plug  
power adapter



12V Car Charger  
cable







User Manual





Recommend to use 100W/120W Solar panel (not included).

## General specifications










### General specs

	Rated capacity	519.48Wh
	Weight (net weight)	≈6.1kg
	Weight (including accessories)	≈7.1kg
	Product size	294*202*202mm

### Input




	DC input	12-26V, max.105W
	AC/DC adapter	AC 100-240V (50Hz/60Hz), DC 25V, 4A
	Solar charge input	12-26V, max.105W
	Car charger	DC 12V, max.105W

### Output

	AC output voltage	110V/60Hz
	Rated output power	500W
	Output waveform	pure sine wave
	Overload protection power	550±40W
	Cigarette lighter socket output	12V/10A
	DC 5.5*2.5 output	12V/5A
	Wireless charger	10W
	USB output	5V 3.0A, 9V 2A, 12V 1.5A, max.18W
	Output Type-C	5V/9V/12V/15V/20V/ 3A, max.60W

total 12V/10A

### Battery


	Standard capacity of batteries	22.2V, 23.4 Ah 519.48Wh
	Discharging temperature	14 to 113°F (-10 to 45°C)
	Recharging temperature	32 to 104°F (0 to 40°C)

## Equipment cleaning

Please make sure that the device is disconnected from all input power and output devices, Wipe with a clean, dry, non-soft cotton cloth. Removing any foreign objects, dirt or other obstructions on the vents on both sides. When cleaning foreign objects in the side vents, do not allow debris, dirt or other Blockage enters the equipment.

Do not use corrosive cleaners or solvents.

Do not use compressed air to clean the side cooling vents, as it will cause foreign particles to enter the interior and cause a short circuit.

 **Note:** To avoid the risk of electric shock, do not use metal objects to clean the ports.

## Storage

If it will be stored for more than 1 month, please charge it to 50% capacity and keep it indoors, at normal temperature, and the maximum storage time shall not exceed 6 months. please keep away from direct sunlight (see the general specification section).

Excessive temperature will lead to reduced service life, overheating and fire.

Extremely cold conditions below the specified storage range can also impair the performance and service life of the equipment. Please keep away from corrosive chemicals and gases.

After taking it out of storage, perform a visual inspection to ensure that the appearance of the equipment and all accessories are qualified. Checking the vents on the intake and exhaust sides to make sure they are free of foreign objects.

Allowing the device to return to the environment before charging or other devices.

## Notice

### Transportation:

The power station meets all legal requirements for the transportation of dangerous goods. The capacity of the lithium battery pack exceeds 100Wh. According to international standards Standard, if the power station is transported by air, it must be transported in accordance with IATA standard packaging. The instructions and labeling requirements of the International Air Transport Association and related declarations must be completed.



Not permitted on aircrafts



Avoid dropping



To preserve the battery lifespans, please use and recharge at least once every 3 months



Do not disassemble



Use original or certified charger and cables



It's not waterproof,do not expose to liquids



Avoid extreme temperature



Please dispose of batteries and electronic goods in accordance with local regulations

## Trouble shooting

The device does not discharge:

- (1) Check whether the output buttons are activated;
- (2) Check whether the total output power exceeds the rated output power;
- (3) Check the battery power indicator to confirm whether the power supply is sufficient;
- (4) If the device cannot be discharged after it is discharged for long time, please wait for several hours and try again, it may enter the over-temperature protection.

The device can not be charged:

- (1) Confirm that the wall plug power adapter's cord is inserted fully into the DC Input.
- (2) Confirm that the AC wall plug power adapter is the charger provided with T500. If the input does not comply with the requirements located in the general specifications section, the low power range 0% to 10% may be displayed on the LCD.
- (3) If the device cannot be charged immediately after it is discharged, please wait for several hours and try again, it may enter the over-temperature protection.

## Maintenance and warranty

### Maintenance

Check as needed. If the T500 energy storage power supply cannot be used regularly, please charge and discharge it every 3 months under normal temperature to keep the service life. Regularly check all ports and wall chargers for any debris, dirt, damage, and corrosion.

Do not disassemble the device privately.

Do not cover the equipment with towels, clothes or other items. Regularly observe the side vents for dust and foreign matter, and clean them according to the cleaning procedures specified in the manual.

## Disposal/recycling



Do not put the device and its accessories in the trash can. Items must be properly handled in accordance with local laws and regulations. For additional information, please see [www.epa.gov](http://www.epa.gov).

## Affirm

all rights reserved. All trademarks cited here are the property of their respective owners. The information contained in this agreement is subject to change without notice. We are not responsible for technical or editorial errors or omissions contained in this agreement. First edition: Aug. 2021.

We assure the original consumer purchaser that our products are free of defects in workmanship and materials during the applicable warranty period determined in the "Warranty Period" section below, subject to the exclusions set third below.

This warranty statement sets our total and exclusive warranty obligations. We will not assume, nor authorize any person to assume for us any other liability related to the sale of our products.

## Warranty period

The warranty period is 12 months, and the warranty period is calculated by the original consumer purchaser from the date of purchase. In order to determine the start date of the warranty period, a sales receipt from the first consumer purchase or other reasonable documentary proof is required.

## Repair processing

We will repair or replace any products that cannot be operated due to defects in workmanship or materials within the applicable warranty period. If a valid claim is filed within the applicable period, we can choose:

- (1) Replacement product.
- (2) It can be exchanged with products of equal value. The replacement product bears the remaining warranty period of the original product or replaces it (90) days from the date of warranty, whichever is greater. The customer is responsible for the shipping cost of the return.

## Exclusions

The warranty does not apply to 1) any product that is modified, misused, abused, damaged by accident, or used for anything other than normal consumer use as authorized in current product literature or 2) any product purchased through an online auction house. The warranty does not apply to the battery cell unless the battery cell is fully charged by you within seven days after your purchase the product and at least every 6 months thereafter.

## After-sales service

For after-sales maintenance service, please contact our customer service team.

## FCC 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. NS PERTAINING TO RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

### WARNING

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:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

FCC ID:2A4UPT500MV1000

## NOTE:

A photovoltaic panel as an input for charging the internal battery shall be provided with an inverter and/or a charge controller in accordance with UL 1741 or UL 62109-1;

The external power supply shall be a power source in accordance with the Standard UL 60950-1 and CAN/CSA C22.2 No. 60950-1, or UL 1310 and No. 1, CAN/CSA C22.2 No. 223, or No. 1, CAN/CSA C22.2 No. 223;

A vehicle adapter that complies with the enclosure and input contacts requirements in the Standard for Vehicle Battery Adapters, UL 2089, and Power Supplies, CAN/CSA C22.2 No. 107.1. The connector plug shall incorporate a fuse or other protective device having a current rating not greater than 15 A.

### INSTRUCTIONS PERTAINING TO RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

#### IMPORTANT SAFETY INSTRUCTIONS

1. **WARNING** – When using this product, basic precautions should always be followed, including the following:

- a) Read all the instructions before using the product.
- b) To reduce the risk of injury, close supervision is necessary when the product is used near children.
- c) Do not put fingers or hands into the product.
- d) Use of an attachment not recommended or sold by power pack manufacturer may result in a risk of fire, electric shock, or injury to persons.
- e) To reduce risk of damage to the electric plug and cord, pull the plug rather than the cord when disconnecting the power pack.
- f) Do not use a battery pack or appliance that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion or risk of injury.
- g) Do not operate the power pack with a damaged cord or plug, or a damaged output cable.
- h) Do not disassemble the power pack, take it to a qualified service person when service or repair is required. Incorrect reassembly may result in a risk of fire or electric shock.
- i) To reduce the risk of electric shock, unplug the power pack from the outlet before attempting any instructed servicing.

j) **WARNING** – RISK OF EXPLOSIVE GASES.

1) To reduce risk of battery explosion, follow these instructions and those published by battery manufacturer and manufacturer of any equipment you intend to use in vicinity of the battery. Review cautionary marking on these products and on engine.

k) **PERSONAL PRECAUTIONS**

- 1) Have plenty of fresh water and soap nearby in case battery acid contacts skin, clothing, or eyes.
- 2) Wear complete eye protection and clothing protection. Avoid touching eyes while working near battery.
- 3) If battery acid contacts skin or clothing, wash immediately with soap and water. If acid enters eye, immediately flood eye with running cold water for at least 10 minutes and get medical attention immediately.
- 4) NEVER smoke or allow a spark or flame in vicinity of battery or engine.
- 5) Be extra cautious to reduce risk of dropping a metal tool onto battery. It might spark or short-circuit battery or other electrical part that may cause explosion.
- l) When charging the internal battery, work in a well ventilated area and do not restrict ventilation in any way.
- m) Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.
- n) Do not expose a power pack to fire or excessive temperature. Exposure to fire or temperature above 130°C may cause explosion. The temperature of 130°C can be replaced by the temperature of 265°F.
- o) Have servicing performed by a qualified repair person using only identical replacement parts. This will ensure that the safety of the product is maintained.

**SAVE THESE INSTRUCTIONS**

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.

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- 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.

#### FCC Radiation Exposure Statement

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 20 cm between the radiator and your body.

FCC ID: 2A4UPT500MV1000

**BRAND**