

Universal Portable Battery Pack MP3450

USER GUIDE

OVERVIEW

You can use the universal rechargeable battery to power any portable device. Connect MP3450 to your laptop computer, portable DVD player, digital camera, digital camcorder, portable CD player, PDA, mobile phone, MP4, GPS, or other portable devices to extend their working time. As an added bonus, MP3450 will supply power to the device while also charging the internal battery which requires less than 65W (output 19V/3.5A) power.

Check that the current consumption of the portable device (especially for laptops) is over 3.5Amp. If the device consumes more than 3.5A, which is the maximum provided by MP3450, it will shut down when turned on and damage the battery bank. But there are two ways in which this can be circumvented:

- Take off the electronic device's internal battery; the MP3450 can supply power to the electronic device directly. The modes of operation are the same as below for indoor & outdoor chapter teaching.
- Don't take off the electronic device's internal battery. Adjust the output voltage of MP3450 1-2 grades lower than the input voltage of the electronic device. For example, if your electronic device's input voltage is 18.5V; please adjust the output voltage of the MP3450 to 14V or 16V scale. It only supplies power to your electronic device when it is switched on, it does not charge the internal battery of the device. This can also prevent the MP3450 from shutting down while charging the internal battery and offering/supplying power to the device at the same time.



Unpacking MP3450

- AC power adapter (DC IN)
- MP3450 Rechargeable battery
- Leather case
- Power output cord (DC OUT)
- 8 Output Adapter tips with drawstring bag
- Power output cord with Car light female adaptor (DC OUT)



MP3450 battery pack

- Voltage Selector
- Voltage / Capacity
- Extension Battery Port (MP3450-10)
- ON/OFF Switch
- DC OUT
- USB port
- DC-IN (12-20V)
- Charging Indicator (orange: on charging / green: fully charged) & USB port working Indicator (red)

CHARGING MP3450

- Before using MP3450 for the first time, you must charge the device for 4-5 hours. Use the AC power adapter to charge MP3450.
 - Put the output plug of the AC power adapter into the DC-IN socket of the MP3450.
 - Put the power adapter into a wall socket. MP3450 will be fully charged in four hours when completely empty. The orange CHARGE LED will turn green to indicate that the battery is fully charged. Set the ON/OFF switch to /ON position, and press the voltage selector to view the battery capacity, if all capacity indicators turn on, this means that the battery is fully charged.
 - When the battery capacity indicates FULL, unplug the power adapter.
 - Start to use the battery.
- NOTE: MP3450 will automatically stop charging when fully charged, so you can charge it overnight without worrying.

Car Charger

MP3450 can be charged in the car, but not be charged and powered both at the same time.

Solar Charger

MP3450 can be charged outdoors with a solar panel, but not be charged and powered both at the same time.

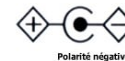
USING MP3450

There are two ways in which you can use the MP3450.

A. Indoors

Steps:

- Select the adapter tip that fits securely into the DC-IN socket of your portable device. Then connect the adapter tip to the power output cord (but not to the device), The MP3450 only support DC connector with a center positive. Please check the polarity of your portable device in order to avoid possible damage.



- Plug the large end of the power output cord into the DC OUT jack of the MP3450. The 5V LED will turn on. If you had selected a voltage previously, the voltage output will auto reset to the initial voltage (5V) when you exchange adapter tips or disconnect the power output cord from the DC OUT jack of MP3450. You should re-set the voltage.
- Set the ON/OFF switch to the /OFF position. Check the voltage specification of your portable device before setting the MP3450 output voltage. (please check the laptop's original AC Power Adapter output current you will find on the label.)
- Set the ON/OFF switch to the /ON position. This will prevent you from accidentally selecting a different voltage while your device is connected.
- Connect the adapter tip into the power jack of the portable device. If this changes the voltage, remove the power output cord firstly. Set the ON/OFF switch to the /OFF position and select a new voltage. Be sure to relock the voltage.

B. OUT DOOR

This connection only provides back-up power for your device and does not charge the internal battery of your device to avoid energy waste. When the MP3450 is charging with its AC power adapter, you can supply power to your laptop, charge its internal battery and MP3450 at the same time. But this is based on the assumption that the laptops' current is less than 3.5A (please check the laptops' original AC Power Adapter output current, which you will find on the label.)

Details for setting the output voltage of the MP3450

You can optimize the use of the MP3450 with your laptop computer or portable DVD player by setting the voltage on the MP3450 to less than the required voltage shown on the power adapter of laptops, to avoid charging the internal battery. Thus, you can extend the working time of your laptop. Therefore, it is recommended that you set the MP3450 output voltage to 14V first, and then test to see if it would power your laptop. If not, increase the MP3450 output voltage to 16V, and retest. Repeat this process until you reach the MP3450 voltage that will only offer power to your laptops but not charge the internal battery. .

NOTE: If your portable device displays a low voltage/low capacity or double-beep warning while the MP3450 is connected, please adjust the voltage setting to one level higher.

Please refer to this table when you are setting the voltage:

Portable Devices	Output voltage of AC power adapter	Suggestion setting Voltage of MP3450
Laptops	14V	12V
	16V	14V
	19V	14-16V
	24V	19V
Portable DVD player	9V	7.5V - 9V
	12V	9-12V
Digital camera	5-6V	5V
CD Player	4.5V-5V	5V
PDA	5V	5V
Mobile phone	3.7V-6V	5-6V
Digital video camera	9V	7.5V-9V
	12V	9-12V
MP3/MP4	5V	5V

Optimize the perfect use of the MP3450 with your PC Laptop to save power.

You can view the power source by checking the three symbols on the screen of your laptop when using the operating system:

- Battery symbol: indicates the power from the internal battery.
- AC Plug symbol: indicates the power from the external AC power.
- AC Plug and flash symbol: indicates the external AC power provides power to the laptop and also charges its internal battery.

We recommend displaying the AC Plug symbol on the screen of your laptop, so that the MP3450 only provides power to your laptop without charging the internal battery. If both the AC plug and the flash symbol are displayed, please adjust the voltage to a lower level in order to extend the MP3450 working time. But some laptops' working voltage and charging voltage are the same. The only solution is to remove the internal battery from your laptop to avoid charging.

USB PORT

To use the USB port (5V/1A), slide the Switch to the /ON position (switched to left), and the USB port will be turned on normally (The LED will be lit up). We recommend sliding the Switch to the /OFF position if the MP3450 is not used for a long period of time, this will prevent the battery from discharging.

VIEW MP3450 BATTERY CAPACITY

The capacity of the MP3450 will decrease as the battery power and/or as you charge up your device. The remaining capacity is shown on the LED indicators. Set the ON/OFF switch to the /ON position. Press the voltage selector and check the remaining capacity by the LED indicators. The lights will turn off in sequence from right to left as the capacity decreases. If only the red EMPTY LED light is on, this means that the MP3450 battery capacity is low, and you should recharge the MP3450 immediately. All LED indicators will be light off when MP3450 is completely empty.

RED LED indicator	1-5% CHARGE BEFORE USE
GREEN LED indicator 1	5-15%
GREEN LED indicator 2	15-25%
GREEN LED indicator 3	25-40%
GREEN LED indicator 4	40-55%
GREEN LED indicator 5	55-70%
GREEN LED indicator 6	70-85%
GREEN LED indicator 7	85-100%

SPECIFICATIONS

Battery Cell: Lithium-Polymer
Power: 50 W
Total Energy Capacity: 50 Wh
Output Current: up to 3,5A
Voltage Supported: 5V/1.5A, 6V/1.5A, 7.5V/1.5A, 9V/1.5A, 12V/2A, 14V/2A, 16V/3A, 19V/3A
USB port: 5V/1A
Input Charging Voltage: 12-20V
Weight: 450g
Size : 8,3 x 17,3 x 2,3 cm
Storage Temperature: -20°C / +43°C
Charge Temperature: 0°C / +45°C
Discharge Temperature: -20°C / +60°C
Capacities (Ah / V) : 10Ah / 5V - 8,3Ah / 6V - 6,6Ah / 7,5V - 5,5Ah / 9V - 4,1Ah / 12V - 3,5Ah / 14V - 3,1Ah / 16V - 2,6Ah / 19V

TROUBLESHOOTING

If MP3450 does not power the portable device battery, take these steps:

1. If all LEDs are turned off when on charging, this indicates that the battery bank is malfunctioning.
2. Ensure that the device does not require more than 65 watts (19V/3.5A). If the device requires more, the MP3450 will not be able to charge the device. However, in most but not all cases, the MP3450 will be able to power the device.
3. View the remaining the battery capacity. If it is below 25%, recharge the MP3450.
4. Check that the output cord is connected to both the MP3450 and the portable device, (If connected correctly, the 5V LED indicators will be on.) and that the adapter tip fits snugly into the power jack of your portable device. if not try another adapter.
5. Check that the output voltage for your portable device matches or is just below the output voltage set on the MP3450. If the output voltage is not correct, unlock the voltage lock (if it is in the locked position), and change the voltage as required.
6. Ensure that a battery is installed in the portable device, as some devices will not function without a battery installed.

BATTERY STORAGE

A battery has a finite life. It is slowly degrading all the time, even if it is not used. This is due to a chemical reaction that gradually reduces the ability of the battery to deliver its charge. All chemical reactions are affected by extreme heat/cold, and by excessive moisture. For these reasons, it is very important to keep your battery as cool, dry, clean as possible at all times.

Once you find that the battery can't be fully charged by any means, this might mean that the battery has reached the end of its useful life. At this point, you should purchase a new one.

BATTERY DO'S AND DON'TS

Here is a quick list of Dos and Don'ts for the care of your batteries, in order to maximize performance.

Battery Dos:

- Fully charge/discharge battery up to 4 cycles before achieving the full capacity of a new battery
- Remove from the device and store in a cool, dry, clean place if the battery will not be in use for a month or longer
- Recharge the battery after a period of storage during which the battery has not been used.
- Must be recycled or properly disposed of used battery.

Battery Don'ts

- Never attempt to disassemble or reassemble.
- Do not short-circuit. A short-circuit may cause severe damage to the battery
- Do not drop, hit, or otherwise abuse the battery as this may result in the exposure of the cell contents, which are corrosive.
- Keep the battery away from fire or other sources of extreme heat. Do not incinerate. Exposing the battery to extreme heat may result in an explosion.
- This battery provides 300 discharge/charge cycles.

LIMITED WARRANTY

The product enclosed herein is warranted to be free of operational defects for a period of one year from the date of purchase. In the event of a defect in operation during the warranty period we will replace the defective product when the owner returns all product contents. The limited warranty will be considered void if the unit is tampered with, subject to misuse, negligence or accidental damage, has been improperly serviced, or if the security seal is removed. This warranty is limited to replacement only and shall not cover any other damages. Any product returned to us with no fault found will be returned to the owner at the owner's expense.

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