

MP3450/MP3500/MP3600
User Guide (V1.0)

Power and charger all these devices

- | | |
|----------------------------------|-----------------|
| I Laptop computers | I PDA |
| I Digital cameras & camcorders | I Mobile phones |
| I Portable music & media players | I And more |
| I Portable DVD players | |

USER GUIDE

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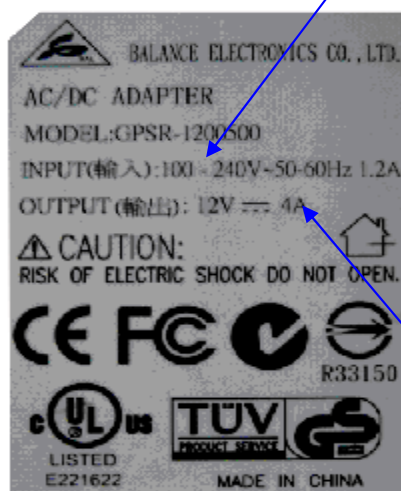
Overview

You can use the universal rechargeable battery to power any portable device. Connect MP3450/3500 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 charge the internal battery that battery require less than 65W (output 19V/3.5A) power. Thus , take care of these affairs .

Verify that the current consumption of the portable device (especially the laptop PC) whether is over 3.5Amp. If the device consumes more than 3.5A that the maximum provided by MP3450/3500, *It's will shut down when turned on and damage the battery bank.* But there are two kinds of settlement methods to help the end user as below :

- a. Take off the electronic device's internal battery; the 3450/3500 can supply power to the electronic device directly. The operate methods is the same as below indoor & outdoor page teaching .
- b. Don't take off the electronic device's internal battery. Adjust the output voltage of MP3450/3500 lower 1~2 scale than the input voltage of electronic device. For example .Your electronic device's input voltage is 18.5V; please adjust the output voltage of MP3450/3500 to 14V or 16V scale. It's just only offer power to your electronic device working and doesn't charge device's internal battery. Because the MP3450/3500's output power is not enough. It also can be prevent the MP3450/3500 shut down when charge the internal battery and offer power to the device at same time. Please note that it can't be charge internal battery in this status follow the operate way :

This can be found on the AC power adapter (output) of the device or internal battery label or device specification label, which typically is found on the bottom of the unit. With the **ON/OFF switch** in  /OFF position, according to the voltage specification of your portable device to set the voltage output of MP3450/3500 by pressing the voltage selector.



If the output current of your device requires more than 3.5A, Please follow the above. If not would damage the battery bank .

MP3450 goes where you go! Slip the handy leather case onto your belt, or just put MP3450 into your briefcase or backpack—it's that lightweight.

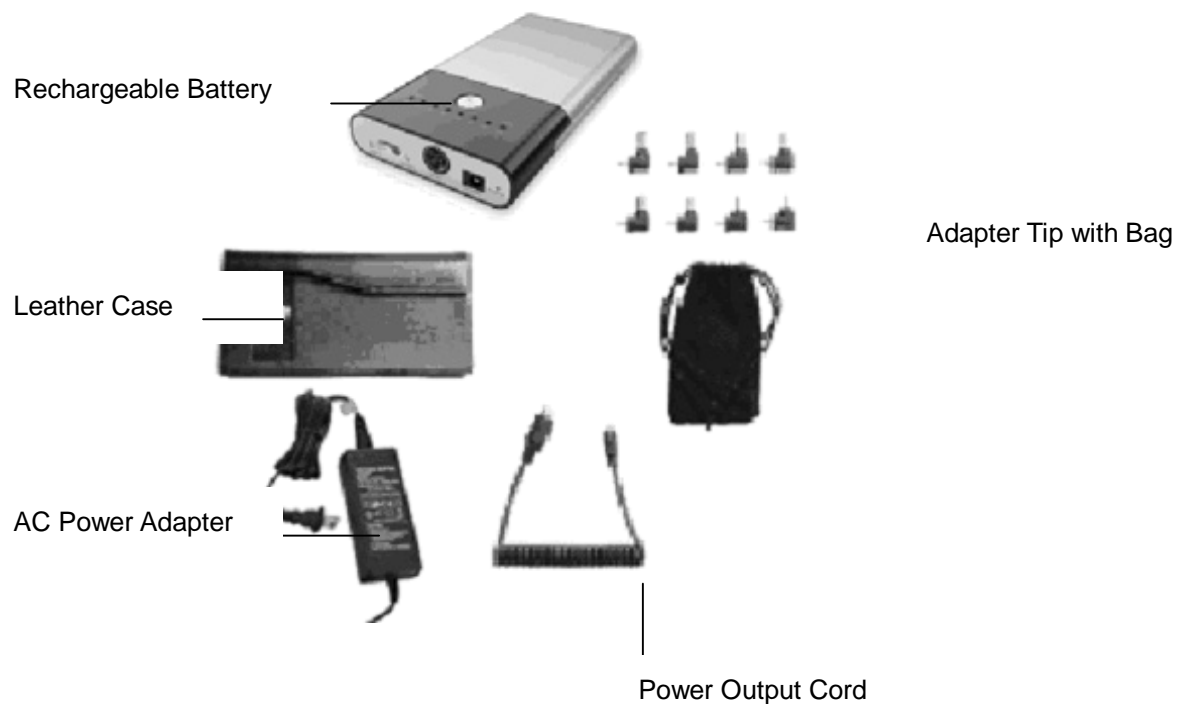
Charge/operate this battery at environment temperature between 0 ~ 40℃. Do not beyond this range to avoid possible damage caused by heat or cold.

Getting Started

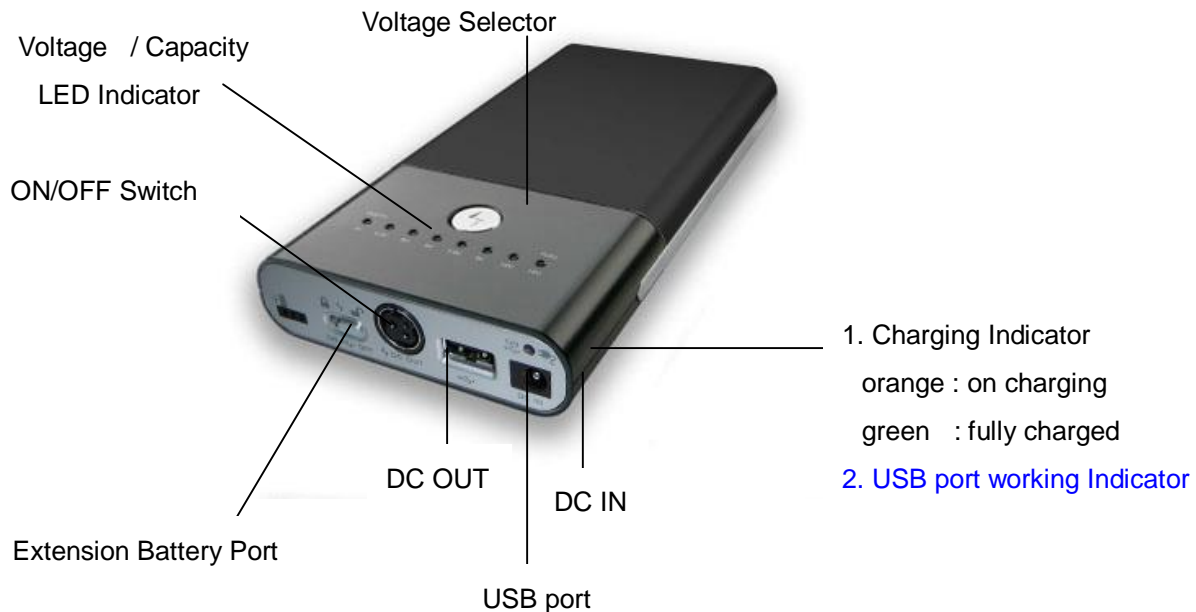
Unpacking MP3450

Your MP3450 package includes the following:

1. Rechargeable battery
2. Leather case(MP3450/3500/3600 is Leather cover)
3. AC power adapter (AC Input 100~240V , DC output 19V/3.2A)
(MP3600 not offer this)
4. Power output cord
5. Output Adapter tips (8 pcs) with drawstring bag (MP3600 supply only one tip special for Apple laptop)
6. User guide (not shown)



Getting to know MP3450




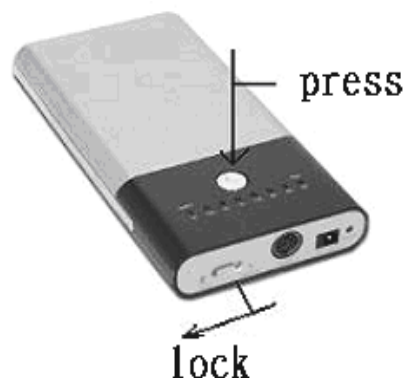
Charging MP3450

1. Before using MP3450 for the first time, you must charge the device for 4~5 hours. Use the AC power adapter to charge MP3450 (Use original AC power adapter of Apple laptop to charge MP3600)
2. Put the output plug of AC power adapter into the **DC in** jack of MP3450.



- 3, Put the power adapter into a wall socket. MP3450 be will charged to full in four hours when completely empty. The orange CHARGE LED will turn on green indicate 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, battery capacity indicates full.



4. When the battery capacity indicates FULL, unplug the power adapter.

5. Start to use battery.

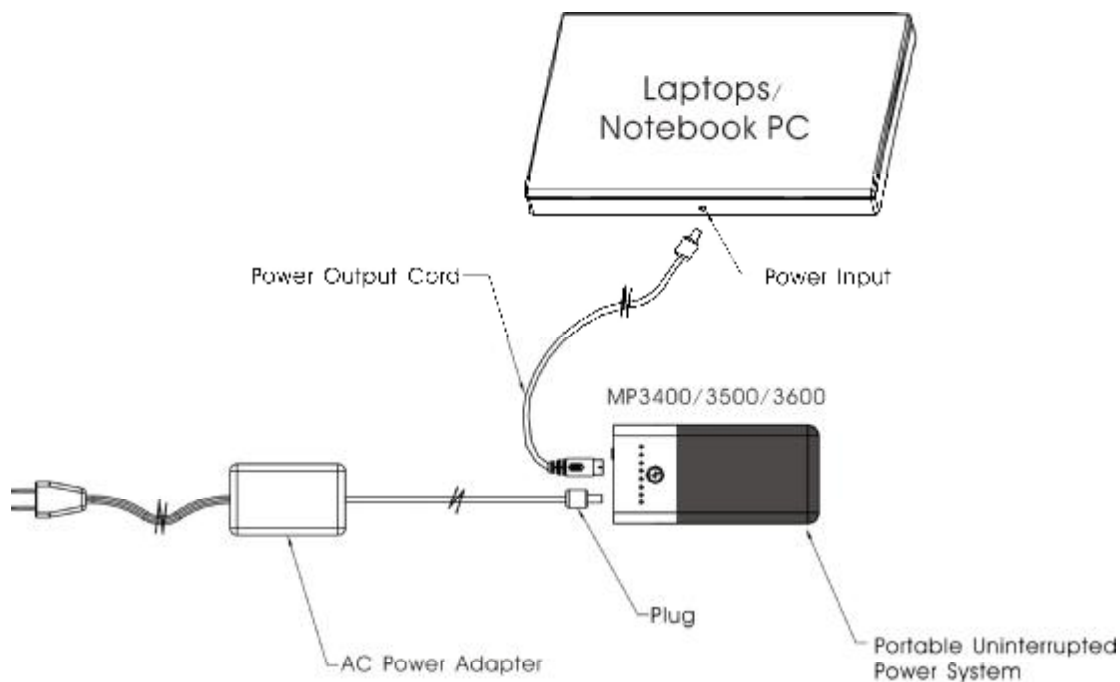
NOTE: MP3450 will automatically stop charging when fully charged, so you don't worry charge it over night.

Using MP3450


There are two connections for your choice.


A. In door :

You can offer power to laptops and charging internal battery of laptops & MP3450 at same time . It will be full capacity at any time . **But it base on that the laptops' current is less than 3.5A (please check the laptops' original AC Power Adapter output current which is on the label)**





Steps:

1. Select the adapter tip that fits securely into the **DC in** jack of your portable device. And connect the adapter tip with the power output cord (but not the device), These batteries only support a center positive of **DC in** jack of device only, which with the polarity symbol as  . Please check polarity of your portable device to avoid possible damage.
2. Plug the large end of the power output cord into the DC OUT jack of 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 power output cord from the DC OUT jack of MP3450. You should set voltage again.

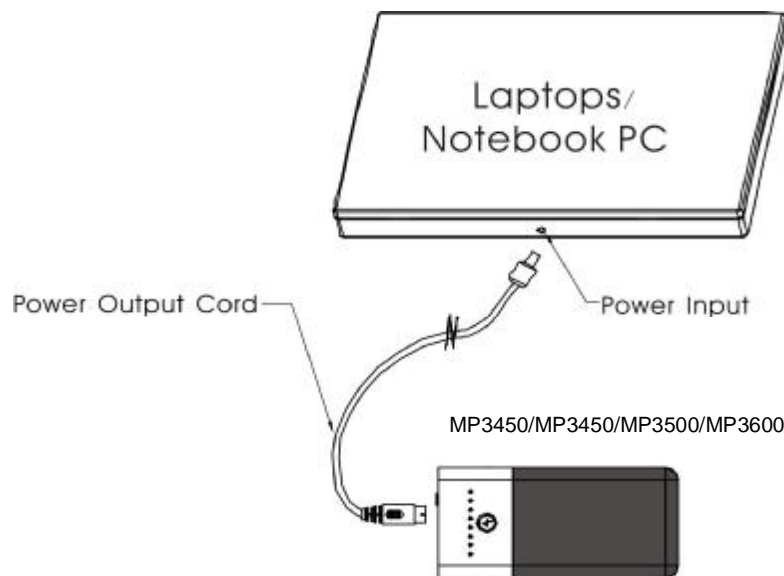
3. Set **ON/OFF switch** in the  /OFF position. check the voltage specification of your portable device

before setting MP3450 output voltage. **(please check the laptop's original AC Power Adapter output current which is on the label.)**

4. Set the **ON/OFF switch** in the  /**ON** position. This will prevent you from accidentally selecting a different voltage while your device is connected.
5. Connect the adapter tip into the power jack of the portable device. If change the voltage, remove the power output cord firstly. Set the **ON/OFF switch** in the  /**OFF** position and select a new voltage. Be sure to relock the voltage.

B. out door :

This connection only hope to back-up power for your device and not charge internal battery of your device to Avoid energy waste. The connection sketch as below:



The details for setting the output voltage of MP3450

You can optimize the use of MP3450 with your laptop computer or portable DVD player by setting the voltage on MP3450 to less than the required voltage shown on the power adapter of laptops to avoid charge internal battery. Thus extending the working time for 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 laptops. If not increase the MP3450 output voltage to 16V, and retest. Repeat this process until you reach the MP3450 voltage that will only offer the power to your laptops but not charge internal battery . .

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


Please refer to the table when you setting the voltage

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

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

View the power source by three symbols on the screen of your laptops when working at the Microsoft window system:

I battery symbol: stand for the power from internal battery.


I AC Plug symbol  : stand for the power from external AC power.

I AC Plug and flash symbol: stand for the external AC power not only offer the power to laptops but also charge its internal battery.

We recommend display AC Plug symbol on the screen of your laptops that MP3450 only offer the power to your laptops without charging internal battery. If display the AC plug and flash symbol both, Please adjust the voltage to a lower level to extend MP3450 working time. But some laptops working voltage and charging voltage are the same. That only one way is removing internal battery from your laptops to avoid charging.

View MP3450 Battery Capacity

The capacity of MP3450 will decrease as the battery power and/or charge your device. The remaining capacity

is shown on the LED indicators. Set the **ON/OFF switch** in the  /ON position. Press the voltage selector and view the remaining capacity by the LED indicators. The lights will turn off in sequence from right to left as the capacity decreases, That only the red EMPTY LED light on when the MP3450 battery capacity is low,. You should recharge MP3450 immediately. There are all LED indicators will be light off when MP3450 is completely empty,


Getting to Know MP3450 / MP3500 / MP3600

Getting to Know MP3450

MP3450 with dual output ports :

- I Adjustable voltage stable output □ 5V/1.5A, 6V/1.5A, 7.5V/1.5A, 9V/1.5A, 12V/2A, 14V/2A, 16V/3A, 19V/3A
- I USB output port: 5V/1A
- I Cell: Li- polymer

Only to use USB port(5V/1A), sliding the Switch to  /ON position (switched to left), the USB port will be


turn on normally(The LED turn on). We recommend sliding the Switch to  /OFF position if MP3450 is not used for a long period of time. Avoid self-discharge(The LED turn off).

MP3450 can be extended to double capacity through connecting extra batteries (MP3460) to get more longer working time for device .

MP3500 has the same functions as the MP3450 except the cell :

- I Adjustable voltage stable output □ 5V/1.5A, 6V/1.5A, 7.5V/1.5A, 9V/1.5A, 12V/2A, 14V/2A, 16V/3A, 19V/3A
- I USB output port: 5V/1A
- I Cell: Li-ion

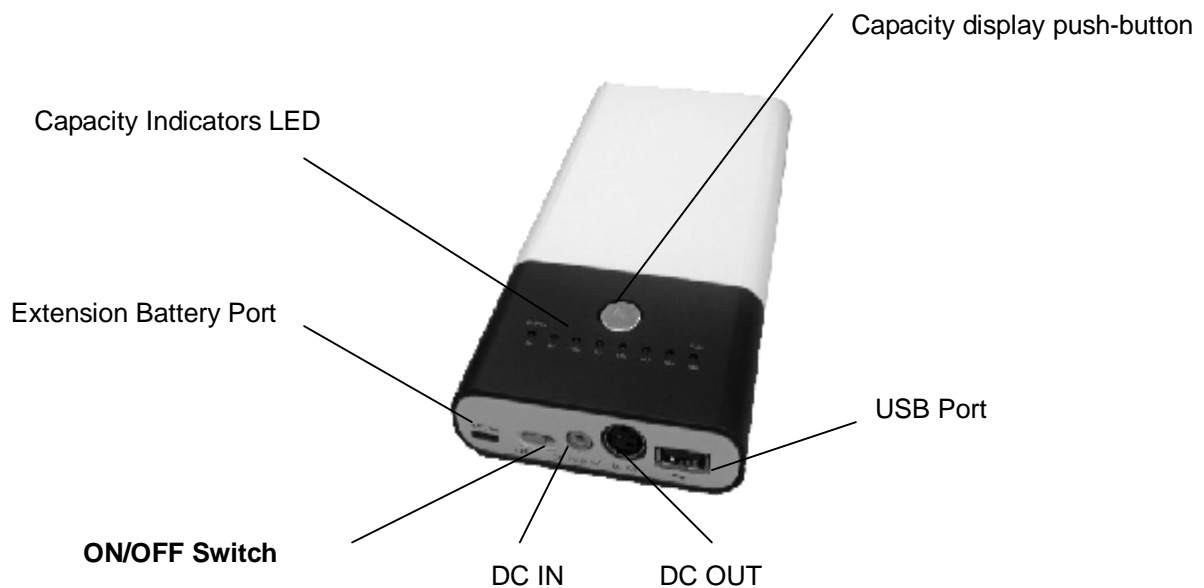
Only to use USB port, sliding the switch to  /ON position (switched to left), the USB port will be turn on

normally(The LED turn on). We recommend sliding the switch to  /OFF position if MP3500 is not used for a long period of time. Avoid self-discharge(The LED turn off).

MP3500 can be extended to double capacity through connecting extra batteries (MP3510) to get more longer working time for device .

It's same function and capacity for MP3450 and MP3500. The only different that MP3450 is Li-polymer cell; but MP3500 is Li-ion cell.

Getting to Know MP3600



MP3600 is specially designed for Apple laptop computer. One Apple adapter tips is included in the package MP3600 can be charged by Apple original adapter.

MP3600 with dual output ports :

- I unstable voltage: 18V~24V/2.5A
- I USB port: 5V/1A

To use the MP3600, slide the Power **ON/OFF switch** to the ON position. Slide the switch to the OFF position, without any output power. Notes: The 8 LED lights just act as capacity indicators. You can quickly see remaining capacity. It could not set voltage from MP3600.

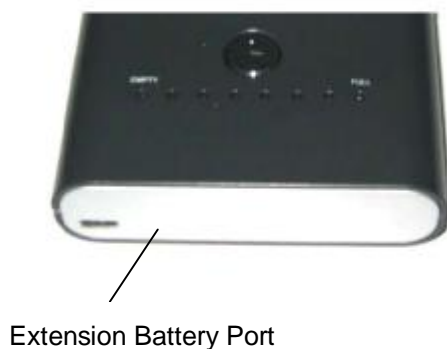
MP3600 can be extended to double capacity through connecting extra batteries.(MP3610)

Getting to Know Extra Battery(MP3460/MP3510/3610)

The Extra battery of MP3450 is MP3460;

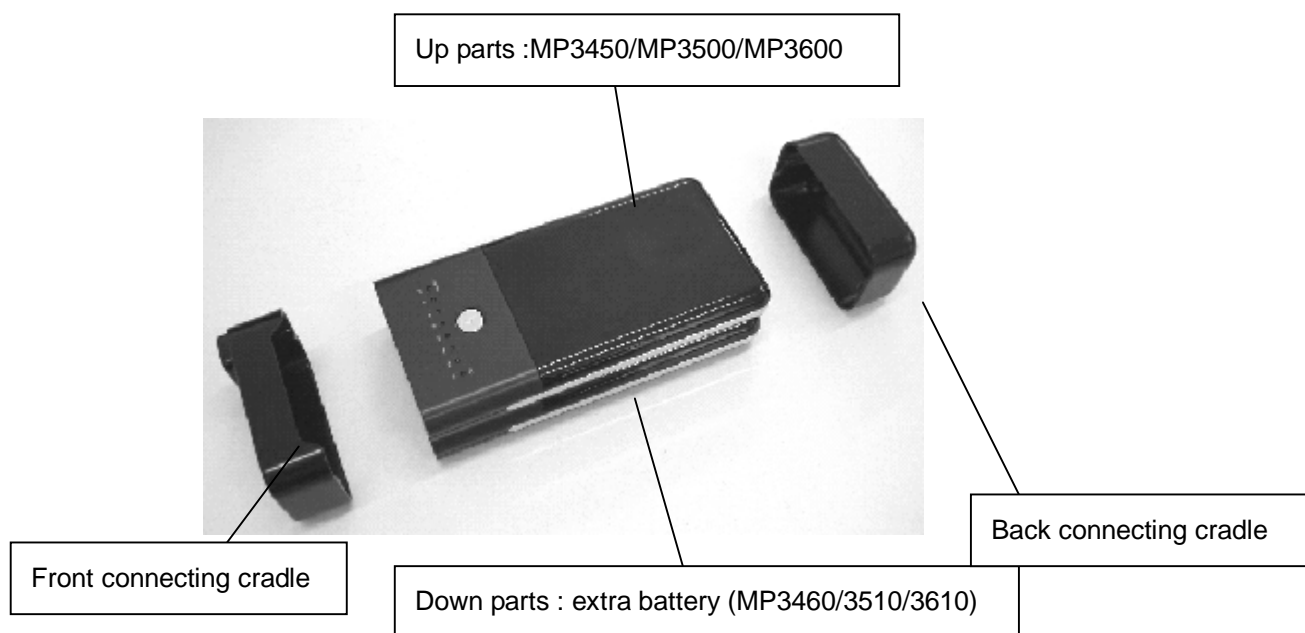
The Extra battery of MP3500 is MP3510;

The Extra battery of MP3600 is MP3610;



The Voltage Selector Key and LED lights on the up housing have not any function.

MP3450/MP3500/MP3600 with MP3460/MP3510/MP3610 assemble diagram



I MP3450/MP3500/MP3600 is extended like this



The charge and discharge time will be double when MP3450/MP3500/MP3600 junction with MP3460/MP3510/MP3610 .

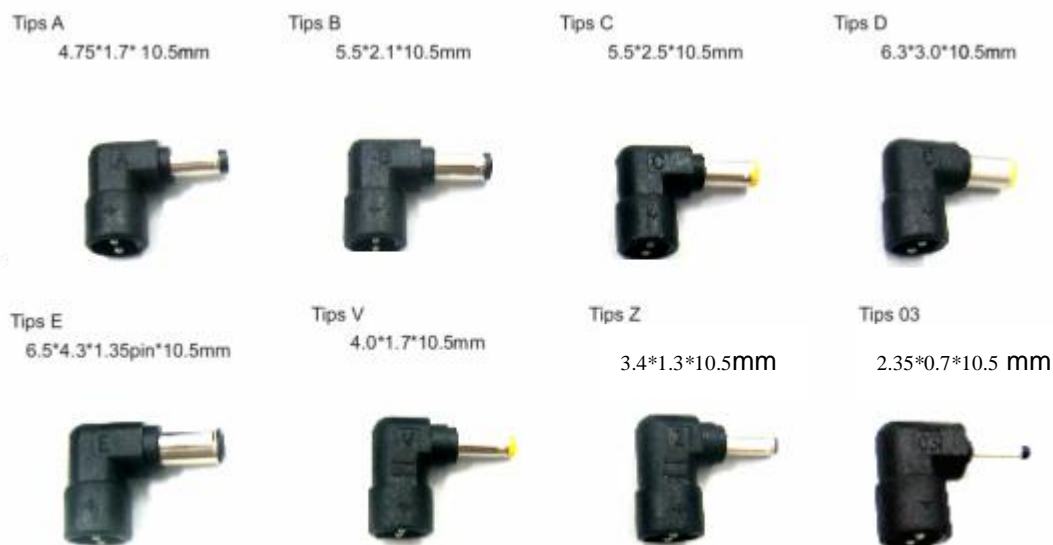
Recording Device Information

The Device At-A-Glance card included with MP3450 enables you to record the information you need to use MP3450 with each of your portable device. Simply record the device name, required voltage, and reference letter for the compatible adapter. Store the card in the pocket provided inside the leather case.

Obtaining Adapters

Eight adapter tips that fit most DC adapter jacks on a variety of portable devices are included with MP3450/3500/3600. For some mobile phone such as Nokia, Motorola V3, this battery can power/charge them with original DC adapter or cable. If none of these tips fits snugly into your portable device power jack, please contact the distributor or shop to determine which optional adapter tip you need for your device.

Adapter tips specification (8PCS)



Troubleshooting

If MP3450/3500 does not power the portable device battery, take these steps:

1. If all LED turn off when on charging , then it indicate the battery bank is malfunction.
2. Verify that the device does not require more than 65 watts (19V/3.5A). If the device requires more, MP3450/3500 will not be able to charge the device. However, in most but not all cases, MP3450/3500 will be able to power the device.
3. View the remaining the battery capacity. If it is below 25%, recharge MP3450/3500.
4. Check that the output cord is connected to both MP3450/3500 and the portable device, (If connected well ,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 MP3450/3500. If the output voltage is not correct, unlock the voltage lock (if in the locked position), and change the voltage as required.
6. Verify that a battery is installed in the portable device, as some device will not function without a battery installed.

Storage Battery

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 causes the internal impedance of the cells to increase and in time, and reduces the ability of the battery to deliver its charge. All chemical reactions are affected by extreme heat/cold and 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 battery can't be fully charged any way, maybe this battery reaches the end of its useful life. You should change new one.

Battery Do's & Don'ts

Here is a quick list of Do's and Don'ts for the care of your batteries to maximize performance.

Battery Do's:

Fully charge/discharge battery up to 4 cycles before achieving full capacity of a new battery

Remove from the device and stored in a cool, dry, clean place if the battery will not be in use for a month or longer

Recharge the battery after a storage period.

Must be recycled or properly disposed of used battery.

Battery Don'ts

Never attempt to disassemble, 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 battery away from fire or other sources of extreme heat. Do not incinerate. Exposure of battery to extreme heat may result in an explosion.

This battery provides 300 discharge/charge cycles. Avoid frequent tip/unplug the AC adapter.

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 products 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 ruptured to the owner at the owner's expense.

To obtain warranty coverage, please complete and submit the enclosed registration card.

Disclaimer of Warranties

Any user of this product does so at the user's own risk. To the maximum extent permitted by applicable law, manufacturer and its suppliers provide the hardware and any support services related thereto "as is" and with all faults; and hereby disclaim all warranties and conditions, whether express, implied or statutory, including,

but not limited to implied warranties of merchantability, fitness for a particular purpose, non –infringement, lack

of negligence or correspondence to description, except for those warranties specifically and expressly provided in the limited warranty.

With respect to the use of this product, in no event shall the company be liable for any loss of profit or any other commercial damage, including but not limited to special, incidental, consequential and other damage.

This user guide is available for MP3450/MP3500/MP3600 series battery pack.

Thanks again.

•**The assorted items as below :**

(1) Car Charger

MP3XXX can be charged in the car , but not be charged and powered both at the same time .



(2) Solar Charger

MP3XXX can be charged with solar panel open air , but not be charged and powered both at the same time .



(3) Adapter Tips

If the attached 8 pcs DC adapter tips in the bag are short of your demand , available kinds of adapter tips as bellows for your option.

Optional Adapter Tips List For Power Runner

package No.	brand	Buy code	Fit for
	Mobile phone		
package 1	For BlackBerry	MOB-01	210/6230/6280/3510/7210/7230/7250/7280/7290/7100g/7100t/7510/7520/
		MOB-02	BLACKBERRY 6710/6720/7270/7730/7750
package2	For Motorola	MOB-03	V66/V60/V65p/V70/V120/V710/MPX200/MPX220/T300p/T72x/T73x/series/V260/V330/A760/A768i/A860/T730/T720/T120/T343./I80/I85/I90/I95/I60/I70/V262/V265V260/
		MOB-04	328/Timeport270c/280/V200/A388/Startac/Talkabout/V998/V3688/CD928/L2000
		MOB-05	V3/A630/A840/A845C330/C331g/c332g/T193/C331t/C333c/C343/C353t/C350/V810/T193/T22xx/V2200/V300/V400/V500/V505/V525/V551/V600/6510/7510/7520/E310/C650/V180/V188/V325/V220/
package3	For LG	MOB-06	VX2000/LX1200/4NE1/1010/110/111/510/520/525/VX1/VX10/VX3100/VX4400/TP1100/5200/5250/VX4400/
		MOB-07	G4010/G4011/G4015/G4050/G4020/C1300/L1100/L1150/L1200/L1400/VX4600VX6000/LX5450/LX5550/LG5400/F9100/Vi5225/VX4500/G263/G282/232/262/G660

		MOB-08	LG3020/VX3200/VX4650/VC4700/VX5200/VX6100/VX7000/VX8000/VX8100/VX9800
		MOB-27	Chocolate KG800 / KG808 / MG800C / KG90 / LX150 / Chocolate VX8500 / VX9900
package4	For Samsung	MOB-09	SA288/SGH-d410/d415/d418/e315/e316/e317/SGH-r225/r225m/n625/v20x/s30x/3500/6100/8500/SGH-p107/p207/x426/x427/x427m/SGH-s300/s307/s308/SGH-v200V206/n625/s307/x427m/P107/C207/E317/P207/X497/D307/D357/D508/D608SCH-n105/q105/SGH-V205
		MOB-10	SPH-i300/i300/i500/i700/i600/i730
		MOB-11	D800/D808/D828/D528/D820/P300/T809
		MOB-12	A630/SCH-a850/a950/a970/a890/a790/a650/a670/n330
package5	For SONY Ericsson	MOB-13	T28/k500i/p800/k700/k700i/s700i/T2xx/T3xx/T6xx/P900/R320/T29/T39/T39d/R300d/T60x/T61x/T62u/T68/T68i/z200/z500a/z600/T20/T60/T61/T62/T66/T200/T226/T237/T316/T608/T610/T616/R300/R320SC/R380/R520m/A2218/A2288/P800/Z200/Z500/T637/S710a/k500i/k700i/z500a/R300ix/R300Z/T300/T306/Z600/T630/
		MOB-14	K750i/z520a/w600i/W800/W550/W900/W500W880/
package6	For NOKIA	MOB-15	6010/6102/N70/N90/N80/82xx/83xx/88xx/6200/6230/6600/6800/6111/6100/6120
		MOB-16	1100/1260/1261/2260/3100/3120/3200/3220/3300/3360/3390/3560/3595/NP-Gagc0D//6100/6190/6200/6230/6340/I6560/6620/6682/6820/I7610/8260/8265/3000/3589/5100/6000/6015/3650/5190/
package7	For Siemens	MOB-17	sl55/sl56/a56/c56/ct56/m55/m56/a55/m55/sl55/56series/A60/C60/C62/CF62T/MC60/S66/SX1/C55/CF63/A65/S65//S66

			/C70/C71/C61/CT66/S55
		MOB-18	C2588/C35/S35/3508/3568/3518/M35/6088/SL45/6688/6688i/3118/3508i/3518i/A40/C45/3568i/1118/ME45
package8	For SANYO	MOB-19	SCP-4900/5300/8100/RL2000/RL2500/R4920/5400/5500/7300/5600/200/4300/4900/7400
		MOB-20	V801SA
package9	For Nextel	MOB-21	I205/i215/i265/i285/i305/i315/i530/i710/i730/i733/i830/i860/i930/i275/i325/i325ls/i355/i560/i605/
	For AUDIOVOX	MOB-22	USB 5P/6700
package10	For Japan Mobile Phone	MOB-23	Panasonic P901is/P901i/P901iv/P701i/X800/NEC N901is/N901ic/N901G/N901il/N901is/N700i/N8/802N/FUJITSU F901is/F901ic/F901it/F901ies/F880ies/F700is/SHARPSH901is/SH901ic/SH851i/SH700is/SH700i/903SH/703SH/802SH/902SH/sx313/MITSUBISHID901is/D901i/D900i/TOSHIBA 902T/WCDMA/FOMA/GX33/900i/880i/70
		MOB-24	AU/CDMA-1/TG200/CDMA
		MOB-25	DOCOMO/PDC/P101/Digital/2100/S3/GX10/GX20/GX30
package11	For Japan Mobile Phone	MOB-26	three Mobile phone plug (DOCOMO/CDMA/FOMA) to USB
	DSC & DV		
package12	For SONY	DSC-01	SONY1/F828/W5/W7/V3/P200/P100/P72
		DSC-02	SONY2
		DSC-03	SONY3
		DSC-04	SONY-DV/PC55E/108E/109E/350E/1000E/HC40E/1000E/85E/21E/33E/43E/90E/20E/30E/DVD7E/602E/653E/703/803E
package13	For JVC	DSC-05	GR-DF570AC/470AC/430AC/D290AC/D270AC/750AC/GR-X5AC/D278/D238
	For Samsung	DSC-06	I50/I5MPS3/I6PMP

		DSC-07	Samsung DSC
	PDA		
package14	For PalmOne	PDA-01	PalmOne/Treo300/600/
		PDA-02	PalmOne Treo650/700/T5/Tungsten E2
		PDA-03	PalmOne m500/505/515/130/125/i705/Tungsten T/T2/Zire 71
Package15	For Sony	PDA-04	Cle'N790,NX60,NX70V,SJ20,SJ22,SJ33,TG50
package16	For Dopod	PDA-05	i-Mate Jam/SP3i/SP5/SP5m/K-jam 02 XDAII Dopod818/Dopod828
		PDA-06	Dopod696
		PDA-07	Dopod686
package17	For Dell	PDA-08	Dell-x30/x50/X50v
	For HP	PDA-09	Mitac Mie 168/336/338/339/558/HP IPOQ h1700/1910/1915/1920/1930/1935/1937/1940/1945/2210/ 2215/HP IPOQ 3800/02
	ipod & game player		
package18	For ipod	GAM-01	FOR Apple ipod white
Package35	For ipod	GAM-05	FOR Apple iPod white (Charge voltage 5V) (Use for iPod G4~vedio)
package19	For Game Player	GAM-02	Gameboy Adance SP,DS
		GAM-03	Nintond Lite NDS
		GAM-04	Nintendo Gameboy
	Laptops Computer		
package20	For Apple	Lap-01	No.Q for Apple Notebook G4
package21	For Apple	Lap-02	No.G for Apple Notebook G3
package22	For Dell	Lap-03	No.F Tip for Dell Notebook Inspiron : 1100/2500/2600/2650/3700/3800/4000/4100/4150/5000/C 410/C500/C540/C600

package23	For Dell	Lap-04	No.K for Dell Notebook Inspiron : 1150/300M
	For HP	Lap-08	DC NO.K 7.4(OD)*5.0(ID)*0.6(IP) HP Notebook computers NC6400/NC8430/NC6140/NC6320/NC4400/NC6120/NC2400 NX7300/7400/6115/6125/6110 NW9440/8440
Package33	For Dell	Lap-07	DC NO.K1 7.4(OD)*5.0(ID)*0.6(IP) Dell Notebook Inspiron 8500 /1150 / 300m/500m/ 6000/ 600m/ 700m/ 8500/ 8600/9200/9300 Dell Latitude D400, D500, D600, D800 X300 D400 D410 D500 D505 D510 D600 D610 D800 D810 Dell Precision M20 M60 M70
package24	For Dell	Lap-05	No.O for Dell Notebook Latitude : 2000/2100/L400/L600/L800/LS
Package34	IBM & Lenovo	Lap-09	DC No.L 7.9(OD)*5.5(ID)*1.0(IP) Lenovo & IBM Notebook computers LENOVO IBM Thinkpad X60 X60S X60T SERIES
package25	For IBM	Lap-06	No.H for IBM Notebook
	DC Tips		
package26		DC Plug	3.0*1.1*11
		DC Plug	5.5*1.5*12
package27		DC No.03	2.35*0.7*10.5
		DC No.Z	3.4*1.3*10.5
		DC No.V	4.0*1.7*10.5
		DC No.M	PA-L55 5.5(OD)*3.3(ID)*1.0(IP) Digital cameras, camcoders, portable DVD players,

package28		DC No.A	4.75*1.7*10.5
		DC No.B	5.5*2.1*10.5
		DC No.C	5.5*2.5*10.5
package29		DC No.D	6.3*3.0*10.5
		DC No.E	6.5*4.3*1.35*10.5
	DC charge Input Adapter		
Package 30	DCIN	BM-AF	DC No.A Jack to DC No.B Plug
		BM-CF	DC No.C Jack to DC No.B Plug
		BM-DF/EF	DC No.D/E Jack to DC No.B Plug
		BM-KF	DC NO.K(7.4*5.0*0.6) Jack to DC NO.B(5.5*2.1*10.5) Plug
Package 31			USB to DC Plug