

Tekkeon

myPower™ ALL *plus*

EXTERNAL LAPTOP BATTERY

MP3750/MP3450-10 User Guide



USER GUIDE

myPower™ ALL *plus*
EXTERNAL LAPTOP BATTERY

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Overview

With myPower™ ALL Plus, the universal rechargeable battery featuring automatic voltage detection with an option for manual voltage selection, you can power your laptop or other portable devices that require from 10V to 19V, plus power and charge just about any 5V portable device from the USB port. Simply connect myPower ALL to your portable device to extend the battery life.

When set to automatic voltage detection, MP3750 automatically detects and sets the voltage for the connected device. When MP3750 is set to manual mode, you simply choose the required voltage for your device. And this lightweight device can power your laptop and a second device at the same time. myPower ALL Plus can be used alone, or with the optional extended battery (MP3450-10) to double the capacity. The extended battery with mounting brackets is sold separately.

Getting Started

Unpacking myPower ALL Plus

Your myPower ALL Plus package includes the following:

User guide (not shown)



myPower ALL Plus
lithium polymer
rechargeable battery

Retractable USB
cable



Mini USB tip

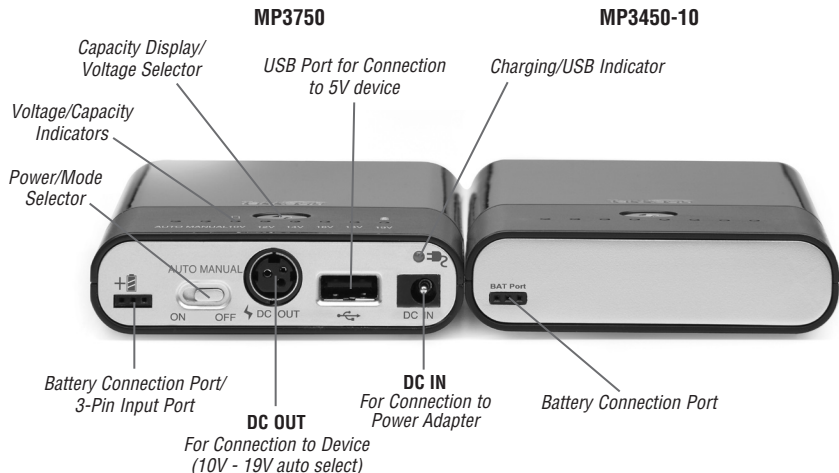


Adapter tip kit with drawstring bag
(8 output adapter tips and 6 input adapter tips)



Power output cord

Getting to Know myPower ALL Plus



Storing myPower ALL Plus

myPower ALL Plus works best while at room temperature but can be used anywhere between 32° to 104° F (0° to 40° C). While not in use, ensure that the output cable is disconnected and the switch is set to MANUAL. Store myPower ALL Plus in a dry area where the temperature is between 50° and 86° F (10° and 30°C). Do not leave myPower ALL Plus in the interior of a vehicle parked in the sun, or exposed to direct sunlight for extended periods of time. With higher temperatures or a moist environment, the battery life will decrease and extreme temperatures can damage the battery.

The standby time for myPower ALL Plus is one year when fully charged. After a year, the battery will likely be fully discharged. For maximum performance, the myPower ALL Plus battery should complete a full charge cycle at least once every six months.

Charging myPower ALL Plus

Charging with a Laptop Power Adapter

To eliminate the need to carry a separate power adapter, you will use your laptop power adapter to charge MP3750. If your laptop power adapter plug does not fit the MP3750 DC IN jack, you must use the input adapter tip that is compatible with your laptop (provided in the package) to connect the power adapter to MP3750. Please note that if the power adapter is not the original supplied with the laptop, you must use a power adapter with the same output voltage and output current as the original.

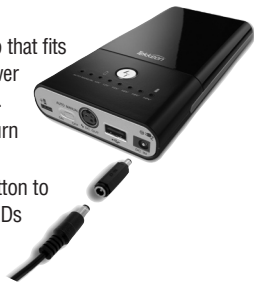
myPower ALL Plus will charge in four hours when completely empty. The green charging indicator will turn on after the battery is 80% charged. Therefore, you should view the actual battery capacity before disconnecting the power adapter to stop charging. (Before using myPower ALL Plus for the first time, you must charge the device for four hours.)

1. Slide the switch to **MANUAL**.
2. Plug your power adapter into the DC IN jack on MP3750.

OR

If your power adapter plug does not fit the jack, select the input adapter tip that fits your laptop power adapter. Connect the input adapter tip to the laptop power adapter, and plug the other end into the DC IN jack on the end of MP3750.

3. Plug the power adapter into a wall outlet. The red charging indicator will turn on to indicate the battery is charging and is less than 80% charged.
4. When the charging indicator turns to green, press the Capacity Display button to view the battery capacity. If the capacity does not indicate full (all green LEDs on), continue to charge the battery until the battery capacity indicates full.
5. When the battery capacity indicates full, unplug the power adapter.



NOTE: *myPower ALL Plus can be charged overnight as it will automatically shut down the power input when fully charged.*

Charging with a Solar Panel

myPower ALL Plus can be charged using a compatible solar panel. You can charge the device using the DC IN port (5.5 x 2.1mm), or the 3-Pin Input Port.

The DC IN port is designed for use with a DC power adapter with constant current input. Charging myPower ALL Plus requires a minimum of 1A current output from the solar panel. In general, a 25W or higher solar panel should provide sufficient power to charge myPower ALL Plus.

The 3-Pin Input port is designed to allow charging by smaller solar panels (lower than 25W), and requires an optional Smart 3-Pin Adapter available from Tekkeon (see *Accessories*). To use this port, there is no minimum current output requirement from the solar panel.

1. Connect the solar panel output cable into the DC IN port on myPower ALL Plus.

OR

Connect the 3-pin end of the optional Smart 3-PIN Adapter into the 3-Pin Input port on the MP3750 and the other end into the solar panel output port.

2. Verify that the red charging indicator turns on to indicate the battery is charging and is less than 80% charged.
3. When the charging indicator turns to green, press the Capacity Display button to view the battery capacity. If the capacity does not indicate full (all green LEDs on), continue to charge the battery until the battery capacity indicates full.
4. When the battery capacity indicates full, unplug the connected charging cable.



LED turns on while solar panel is charging myPower ALL Plus

Using myPower ALL Plus

The main output port (DC OUT) on myPower ALL Plus can be used to power and/or charge any portable device that requires between 10V and 19V. In general most of the devices accept a voltage tolerance up to 10%. That means this port cannot be used to power devices that require under 9V or higher than 21V. The USB output port can be used simultaneously or separately to power and charge smaller devices requiring 5V.

To use myPower ALL Plus to power and/or charge your device, take these steps which are described in detail in the following sections.

- Select an output adapter tip for your main device and connect the tip to the output cord.
- Connect the power output cord to myPower ALL Plus.
- Select the mode.
- Set the voltage (manual mode only).
- Connect the power output cord/output adapter tip to your laptop. See *Adapters* for detailed information about adapter tips.
- To the USB port, connect a 5V device using an adapter or with the device USB cable (optional).

You also can charge your laptop and myPower ALL Plus at the same time by plugging the laptop power adapter into myPower ALL Plus. In this case, the output current should be less than 5A to power and/or charge your device. myPower ALL Plus will shut down and may be damaged if more than 5A is provided.

Select/Connect the Adapter Tip

1. Locate the polarity symbol on your device in the area around the power connector jack:



Center Positive



Center Negative



WARNING: myPower ALL Plus supports Center Positive polarity only. If your device has a Center Negative polarity, do not power the device with myPower ALL Plus; contact support@tekkeon.com for assistance.

2. Select the output adapter tip that fits securely into the power jack on your portable device.
3. Connect the output adapter tip to the power output cord (but not to the device).

Connect the Power Output Cord

1. Plug the large end of the power output cord into the DC OUT jack on myPower ALL Plus. If myPower ALL Plus is in Manual mode (as indicated by the MANUAL LED), the battery will turn on.

Select the Mode

1. To use the automatic detection feature, slide the switch to AUTO. The AUTO LED will turn on. If you wish to manually select the voltage, slide the switch to MANUAL and follow the steps in the next section.

Set the Voltage Level

1. Locate the voltage specification for your portable device. This can be found on the device power adapter label or device specification label which typically is found on the bottom of the unit. (If available, use the voltage specification shown on the power adapter.)
2. Set the voltage that is equal to or one increment higher than the voltage identified for your device by pressing the Voltage Selector until the LED for your required voltage is lit (10, 12, 14, 16, 18, 19). For example, if your device requires 10V, set the voltage to 10. If your device requires 13.5V, set the voltage to 14.

When the device is connected, the voltage will be locked. To change the voltage, disconnect the device, and repeat the previous steps.

CAUTION: It is important to set the voltage selector **NO MORE** than one step higher than the voltage requirement for the portable device as an incorrect setting may prevent myPower ALL Plus from working with your device, or may harm your device in the rare instance that the device accepts the higher voltage. However, for all devices, adjusting the voltage **ONLY** one step higher than required will not harm the device.



Sample Power Adapter Label.

Most laptop computers have a battery voltage of 11.1V or 14.8V, allowing them to be powered with 12V or 14V. Therefore, it is recommended that you set the voltage to 12V (in manual mode) first, and then test to see if it will power your laptop. If not, increase the voltage to 14V, and retest. Repeat this process until you reach the voltage that will power your laptop.

myPower ALL Plus VOLTAGE SELECTION

Device Type	Voltage on Device Power Adapter	Recommended Voltage Setting
Laptop Computers	14V	12-14V
	16V	14-16V
	19V	16-19V
Portable DVD Players	12V	10-12V
Digital Camcorders	12V	10-12V
Other Devices	10-19V	Match voltage shown on power adapter label

TIP: You can optimize the use of myPower ALL Plus with your laptop computer or portable DVD player by setting the voltage on myPower ALL Plus to less than the required voltage shown on the power supply. This prevents myPower ALL Plus from charging the device, thus extending the amount of time you can use myPower ALL Plus to power your device.

Connect the Portable Device

1. Connect the output adapter tip into the power jack on the portable device (that requires between 10V and 19V). If you have turned on the automatic detection feature in the previous step, the voltage will be automatically detected and set for the connected device. The green LEDs will turn on/off in sequence and stop about the voltage that has been set.
2. Turn on the portable device and use it as you would normally. While connected, myPower ALL Plus will power (or power and charge in some cases) your device.
3. When finished, unplug the power output cord from your device and battery and slide the power switch to OFF to turn off the battery when not in use.

TIP: For most portable devices, myPower ALL Plus can be used to power the device even when the device battery is not installed.

WARNING: Only devices requiring between 9V and 21V (within 10% tolerance) may be connected to the main output port. Connecting a device requiring any other voltage may damage the device.

Use the USB Port to Charge a 5V Device

You can charge a 5V device via the USB port on myPower ALL Plus. The device can be connected to myPower ALL Plus using an adapter or the device USB cable. To preserve the battery, the USB port is turned off as the default. If myPower ALL Plus is set to AUTO, or if myPower ALL Plus is set to MANUAL and the Power Output Cord is connected, the USB port is on.

Charge a 5V Device Using Your USB Cable

1. If the MP3750 is set to manual mode, ensure that the power output cord is connected. Alternatively, slide the switch to AUTO.
2. Insert the USB plug on the device cable into the USB port on myPower ALL Plus.
3. Connect the USB cable into the power jack on your portable device.
4. Turn on the portable device and use it as you would normally.
5. When finished, unplug the USB cable from myPower ALL Plus and your device, and slide the power switch to OFF to turn off the battery when not in use.

Charge a 5V Device Using an Adapter

1. If the MP3750 is set to manual mode, ensure that the power output cord is connected. Alternatively, slide the switch to AUTO.
2. Connect the compatible output adapter tip to the retractable USB cable.
3. Connect the retractable USB cable into the USB port on myPower ALL Plus.
4. Connect the adapter tip to your 5V device.
5. Turn on the portable device and use it as you would normally.
6. When finished, unplug the retractable USB cable from myPower ALL Plus and your device, and slide the power switch to OFF to turn off the battery when not in use.

NOTE: *The USB port provides only 5V 1.2 Amp of power and cannot be used to charge devices that require greater voltage or higher than 1.2 Amp current.*

View myPower ALL Plus Battery Capacity

The capacity in myPower ALL Plus will decrease as the battery powers and/or charges your devices. The remaining capacity is shown on the capacity indicator, which is accessed as described below. As the remaining capacity decreases, the LEDs will turn off in sequence from right to left. When the myPower ALL Plus battery capacity is low, only one LED will be on. You should recharge myPower ALL Plus at this time. When myPower ALL Plus is completely out of battery, all LEDs will be off. At this point, you must charge myPower ALL Plus.

1. Press the Capacity Display button to view the capacity as follows:

CAPACITY INDICATOR

1st Green Indicator	1-10%
2nd Green Indicator	10-25%
3rd Green Indicator	25-40%
4th Green Indicator	40-60%
5th Green Indicator	60-80%
6th Green Indicator	80-100%

Adapters

Eight output adapter plugs that fit most DC adapter jacks on a variety of laptops and a mini USB tip, and six input tips are included with myPower ALL Plus. The following table shows each adapter tip model number, marking, and compatible manufacturers.

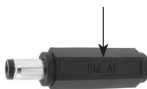
Output Adapter Tip Connect MP3750 to Laptop		Input Adapter Tip Connect Laptop Power to MP3750		Laptop Manufacturers
Model No.	Marking	Model No.	Marking	
PA-L47	A	PA-L47F	BM-AF	Acer, Asus eeePC, Averatec, HP/Compaq
		PA-N12F	BM-B1F	Acer Aspire One
PA-L5D	B	Not needed	Not needed	Acer, Averatec, IBM/Lenovo
PA-L5F	C	PA-L5FF	BM-CF	Acer, Asus, Averatec, Dell, Fujitsu, Gateway, HP/Compaq, IBM/Lenovo, NEC, Panasonic, Toshiba, Winbook
PA-L63	D	PA-L65F	BM-DF/EF	Toshiba
PA-L65	E			Fujitsu, Panasonic, Sony
PA-N09	16	PA-N09F	BM-16F	IBM/Lenovo
PA-N10	K	PA-N11F	BM-KF	HP/Compaq
PA-N11	K1			Dell

Sample markings for each type of adapter are shown here:

Output Adapter Marking



Input Adapter Marking



If none of these plugs fits snugly into your portable device power jack, please go to our web site at www.tekkeon.com/mpadapters to determine which adapter tip you need for your device. You can obtain most adapters, including the Smart 3-Pin Adapter, through the web site, or by contacting Tekkeon by e-mail at support@tekkeon.com, or by phone at 888-787-5888 or 1-714-832-1266. If available through Tekkeon, the adapter will be sent to you for a nominal fee.

Accessories

In addition to the adapters, several accessories are available for myPower ALL Plus, including:

MP3300-11

3' coil output cable.

MP3300-12

2' straight output cable with right angle output connector.

MP3450-10

Extended battery that doubles the capacity of myPower ALL Plus (see next section).

MP3450-30

Car charger to charge myPower ALL Plus.

PA-CLA

Female car charge that connects to myPower ALL Plus to charge your mobile device with your mobile device car charger.

PA-SCC1

Smart 3-Pin Adapter to charge myPower ALL Plus with a solar panel.

These accessories can be ordered from our web site at www.tekkeon.com or by phone at 888-787-5888 or 1-714-832-1266.

Using the Extended Battery (MP3450-10)

You can double the capacity of myPower ALL Plus by adding the extra battery unit MP3450-10. When MP3450-10 is added to MP3750, the battery capacity shown on the indicators includes the capacity available with MP3450-10.

Adding the Extended Battery

1. Place MP3750 on top of MP3450-10 with both flat silver ends facing the same direction.
2. Connect the bracket with the 3-Pin plugs inside to the silver ends of the devices. The 3-Pin plugs will mate with the battery port on each of the devices, and the controls on the end of MP3750 will show through the bracket opening.
3. Connect the second bracket on the opposite end of the devices to hold the units together securely.
4. Use MP3750 as you would normally.



Charging the Extended Battery

1. With MP3450-10 connected, charge MP3750 as described earlier. Both batteries will be charged at the same time (in parallel).

Troubleshooting

If myPower ALL Plus does not power the portable device or charge the device battery, take these steps:

1. Verify that the Power Output Cable is connected to the MP3750. Please note that with some laptop models, the laptop may shut down if the laptop is connected to MP3750 with the Power/Mode switch in the ON position. Remove and replace the laptop battery to reset the laptop charging circuitry, and connect MP3750 again, with the power switch in the OFF position. Slide the power switch to ON after the laptop is connected.
2. Verify that the current consumption of the portable device is not more than 4.5 Amp. If the device consumes more than the maximum provided by myPower ALL Plus, the device will shut down when turned on and cannot be powered and/or charged by myPower ALL Plus.
3. Verify that the device does not require more than 19V or 90W.
4. Verify that the laptop power adapter does not provide more than 5A. The output voltage can be found on the power adapter label.
5. View the remaining battery capacity. If it is below 25%, recharge myPower ALL Plus.
6. Check that the output cord is connected to both myPower ALL Plus and the portable device, and that the adapter plug fits snugly into the power jack on your portable device. If not, try another adapter.
7. Verify that the polarity of the device power jack is Center Positive. If the polarity is Center Negative, please contact support@tekkeon.com for assistance.
8. Verify that a battery is installed in the portable device as some devices will not function without a battery installed.



*Center Positive
Symbol*



*Center Negative
Symbol*

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 Tekkeon, Inc. 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 Tekkeon, Inc. with no fault found will be returned 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, Tekkeon, Inc. 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 damages.

Customer Support

Customer support for myPower ALL Plus is available at:

Tekkeon, Inc.

c/o myPower ALL Plus

3002 Dow Avenue, #134

Tustin, CA 92780

888-787-5888 / 714-832-1266

www.tekkeon.com

Tekkeon, Inc. must issue a Return Merchandise Authorization (RMA) number for all exchanges or refunds.



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Rev A

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Cut loose. Stay loose.