

Tekkeon

myPower™ ALL *plus*

EXTERNAL LAPTOP BATTERY

MP3700/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, you can power your laptop or other portable devices that require from 9.5V to 20V, 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.

myPower ALL Plus automatically detects and sets the voltage for the connected device. And this lightweight device can power your laptop and a second device at the same time. This rechargeable lithium polymer battery 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

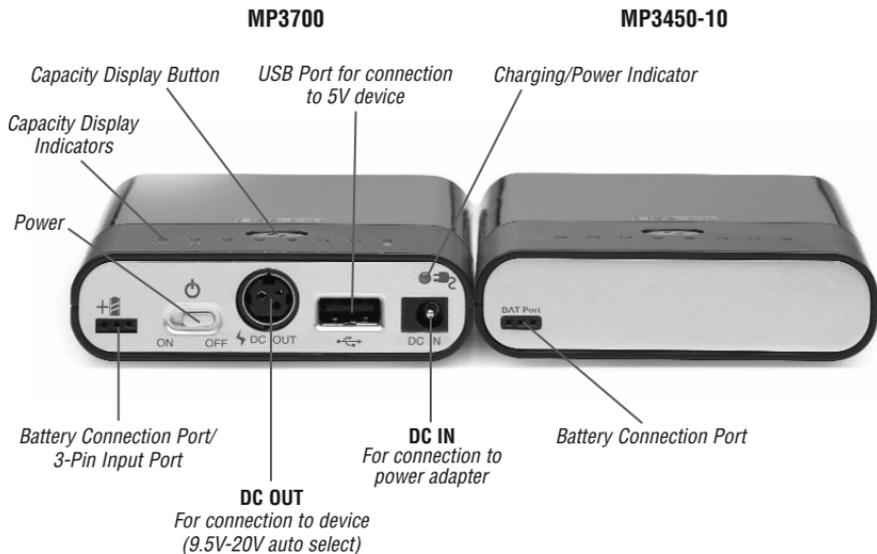


Adapter tip kit with drawstring bag
(8 output adapter tips and 5 input adapter tips)



Power output cord

Getting to Know myPower ALL Plus



Storing myPower ALL Plus

myPower ALL Plus can be used in the environmental temperature range between 32° to 104° F (0° and 40°C). While not in use, store myPower ALL Plus in a dry area where the temperature is between 50° and 86° F (10 and 30°C). With higher temperatures or in a moist environment, the battery life will decrease. Extreme temperatures can damage the battery.

Charging myPower ALL Plus

myPower ALL Plus does not come with its own power adapter as it uses your laptop power adapter to eliminate the need to carry multiple power adapters. To charge MP3700, you can use either your laptop power adapter or a solar panel. The steps to charge with either of these devices are described in this section.

myPower ALL Plus will charge in four hours when completely empty. The charging indicator will change from red to green 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.)

Charging with a Laptop Power Adapter

If your laptop power adapter tip does not fit the MP3700 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 MP3700. See Adapters on page 11 for detailed information about the adapter tips.

WARNING: *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. This is very important as MP3700 passes through the voltage to the laptop when both MP3700 and the laptop are being charged using the power adapter.*

NOTE: *Before connecting the laptop power adapter to myPower ALL Plus, please confirm that the power adapter does not provide more than 5A as myPower ALL Plus will shut down and may be damaged if more than 5A is provided. The output voltage is shown on the power adapter label.*

1. Slide the ON/OFF switch to OFF.
2. Connect the laptop power adapter to the DC IN jack on MP3700. If your power adapter tip does not fit the DC IN jack, connect the input adapter tip that fits your laptop power adapter to the plug on the laptop power adapter, and plug the other end into the DC IN jack on the end of MP3700.
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.



NOTE: *myPower ALL Plus will automatically shut down the power input when fully charged, so you can charge it overnight.*

Charging with a Solar Panel

You can charge myPower ALL Plus using a compatible solar panel. The solar panel can connect to the DC IN port, or the 3-Pin Input Port, depending upon the type of solar panel. The DC IN port is designed for use with a DC power adapter with constant current input. Charging myPower ALL Plus efficiently 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. To use the solar panel with this port, the solar panel must have a minimum open circuit voltage of 15V. However, there is no minimum output current requirement from the solar panel.

To Charge through the DC IN Port

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

To Charge through the 3-Pin Input Port

1. Connect the 3-Pin end of the optional Smart 3-Pin Adapter into the 3-Pin Input port on the MP3700 (shown) and the other end into the solar panel output port.
2. Verify that the charging indicator next to the input jack on the Smart 3-Pin Adapter (shown) will turn on to indicate the battery is charging.
3. After approximately four hours, 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 when 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 9.5V and 20V (and some power devices that require slightly more voltage). At the same time or separately, the USB output port can be used 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 plug to the output cord.
- Connect the power output cord to myPower ALL Plus.
- Connect the power output cord/output adapter tip to your laptop. See Adapters on page 11 for detailed information about the adapter tips.
- Connect a second 5V device using an adapter, or with the device USB cable.

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.

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. See Adapters on page 11 for detailed information about the adapter tips.
 3. Connect the output adapter tip to the power output cord (but not the device).

Connect the Power Output Cord

1. Plug the large end of the power output cord into the DC OUT jack on the end of myPower ALL Plus.

Connect the Portable Device

1. Connect the output adapter tip into the power jack on the portable device.
2. If the internal battery is installed in the connected device, turn on the device.
3. Slide the power switch to ON. The MP3700 will automatically detect and set the required output voltage.
4. If the portable device is not already turned on (step #2), turn on the portable device. While connected, myPower ALL Plus will power (or power and charge in some cases) your device.
5. When finished, unplug the power output cord from your device 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.

Connect the 5V Device Using an Adapter

1. Connect the compatible output adapter tip to the retractable USB cable.
2. Connect the retractable USB cable into the USB port on myPower ALL Plus.
3. Connect the adapter tip to your 5V device.
4. Slide the power switch to ON to turn on the battery. While connected, myPower ALL Plus will power and charge your device.
5. Slide the power switch to OFF to turn off the battery when not in use.

Connect the 5V Device Using the Device USB Cable

1. Insert the USB plug on the device cable into the USB port on myPower ALL Plus.
2. Connect the USB cable into the power jack on your portable device.
3. Slide the power switch to ON to turn on the battery.
4. Turn on the portable device and use it as you would normally. While connected, myPower ALL Plus will power and/or charge your device.
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.

NOTE: *The USB port provides only 5V 1A of power and cannot be used to charge devices that require greater voltage or higher than 1A 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 displayed on the capacity indicator, which is accessed as described below. As the remaining capacity decreases, the lights will turn off in sequence from right to left. When the myPower ALL Plus battery capacity is low, only the red light will be on. You should recharge myPower ALL Plus at this time. When myPower ALL Plus is completely out of battery, all lights will be off. At this point, you must charge myPower ALL Plus.

1. Press the Capacity Display button to view the capacity as shown in the table below.

CAPACITY INDICATOR

Red Indicator	1-5% (<i>Recharge before using</i>)
1st Green Indicator	5-15%
2nd Green Indicator	15-25%
3rd Green Indicator	25-40%
4th Green Indicator	40-55%
5th Green Indicator	55-70%
6th Green Indicator	70-85%
7th Green Indicator	85-100%

Adapters

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

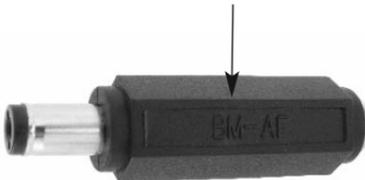
Output Adapter Tip Connect MP3700 to Notebook		Input Adapter Tip Connect Laptop Power to MP3700		Laptop Manufacturers
Model No.	Marking	Model No.	Marking	
PA-L47	A	PA-L47F	BM-AF	Acer, Averatec, HP/Compaq
PA-L5D	B	Not needed	Not needed	Acer, Averatec, IBM/Lenovo
PA-L5F	C	PA-L5FF	BM-CF	Acer, Asus, Averatec, 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.tektron.com/mpadapters to determine which adapter plug you need for your device. You can obtain most adapters, including the Smart 3-Pin Adapter, through the web site, or by contacting Tektron by phone at 888-787-5888 or 1-714-832-1266. If available through Tektron, 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:

MP3300-10

Optional 3' straight output cable to extend reach between myPower ALL Plus and your device.

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 can be ordered from our web site at www.tekkeon.com or by contacting Tekkeon 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 MP3700, the battery capacity shown on the indicators includes the capacity available with MP3450-10.

Adding the Extended Battery

1. Place MP3700 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 MP3700 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 MP3700 as you would normally.



Charging the Extended Battery

1. With MP3450-10 connected, charge MP3700 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 battery is turned on by sliding the power switch to ON. Please note that with some laptop models, the laptop may shut down if the laptop is connected to MP3700 with the power switch in the ON position. Remove and replace the laptop battery to reset the laptop charging circuitry, and connect MP3700 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 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 20V or 90W (=voltage x current, which is shown on the power adapter).
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 tip 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

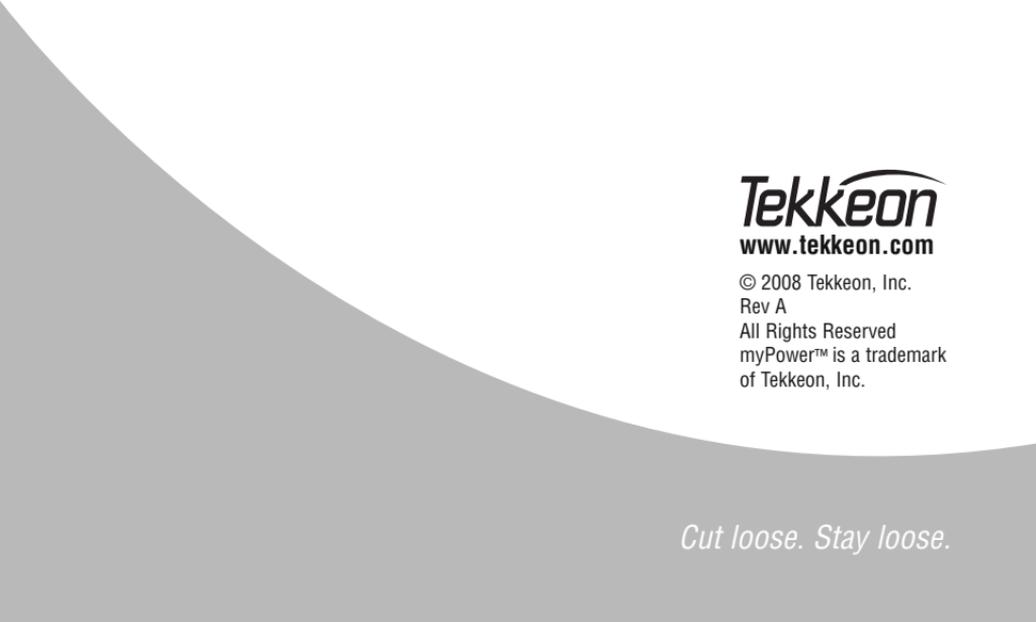
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www.tekkeon.com

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.