



**RadioShack®**

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# Mini Power Bank and Charger





**Owner's Manual**

Please read before using this equipment.

Your charger is ETL listed to UL standards and meets all applicable FCC standards.

**WARNING:** To reduce the risk of fire or shock hazard, do not expose this product to rain or moisture.

	<b>CAUTION</b> RISK OF ELECTRIC SHOCK. DO NOT OPEN.	
<b>CAUTION:</b> TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER OR BACK. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.		

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This symbol is intended to alert you to the presence of uninsulated dangerous voltage within the product's enclosure that might be of sufficient magnitude to constitute a risk of electric shock. Do not open the product's case.



This symbol is intended to inform you that important operating and maintenance instructions are included in the literature accompanying this product.

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## 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.

**Warning:** Changes or modifications to this charger not expressly approved by RadioShack may cause interference and void the user's authority to operate the equipment.

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 residen-

tial 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:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.

Consult your local RadioShack store if the problem still exists.

## **CARE**

Keep the charger dry; if it gets wet, wipe it dry immediately. Use and store the charger only in normal temperature environments. Handle the charger carefully; do not drop it. Keep the charger away from dust and dirt, and wipe it with a damp cloth occasionally to keep it looking new.

Modifying or tampering with the charger's internal components can cause a malfunction and might invalidate its warranty and void your FCC authorization to operate it. If your charger is not performing as it should, take it to your local RadioShack store for assistance.

# IMPORTANT SAFETY INSTRUCTIONS

**Danger:** To reduce the risk of fire or electric shock, carefully follow these instructions.

This manual contains important safety and operating instructions for your charger. Before using the charger, read all the instructions and cautionary markings in this manual, on the charger, on the batteries to be charged, and on the products that use the batteries.

**Warnings:** To reduce the risk of injury:

- Unplug the charger from the AC outlet before attempting any maintenance or cleaning.



- Do not disassemble the charger; take it to a qualified service technician when service or repair is required. Improper reassembly may result in a risk of electric shock or fire.
- Do not use an attachment not recommended or sold by RadioShack or this could result in a risk of fire, electric shock, injury to persons, or damage to personal property.

**Cautions:** To reduce the risk of damage:

- Do not expose the charger to rain or excessive moisture.
- Do not operate the charger if it has received a sharp blow, or been dropped or damaged in any way.

Take it to a qualified service technician for repair.

- Do not use an extension cord. Its use could result in fire or electric shock.
- Do not operate the charger if the cord or plug is damaged. Have the charger repaired. Never alter the provided AC plug. If it does not fit into the AC outlet, have a qualified service technician install the proper outlet. Improper connection can result in an electric shock.

## **SAVE THESE INSTRUCTIONS**

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## **Features**

Your RadioShack Mini Power Bank and Charger combines an AC to DC power adapter, charger, and DC to DC converter to provide a portable power supply. Whether you are at home or in other countries, you can use it as a battery charger for AA batteries or an AC to DC adapter with AC power input ranging from 90V to 240V. When traveling, you can install four AA batteries and the DC to DC converter provides voltages of 3/4.5/6/7.5/9V to your portable DC device. Its features include:

**Overload/Short Circuit Protection** — protects the charger and batteries from damage caused by overloads and short circuits.

**Charging Protection** — detects battery charge status and stops charging when the batteries are fully charged.

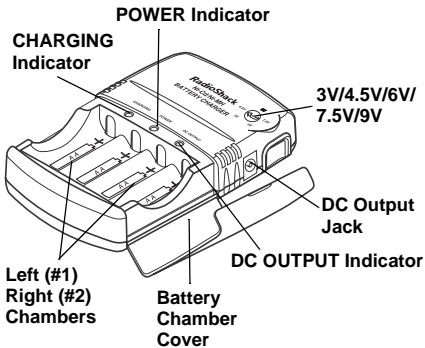
**Safety Guard Timer** — automatically stops charging after 4 hours to prevent battery overcharging.

**Reverse Polarity Protection** — protects the charger and batteries from damage due to incorrectly installed batteries.

**Three LED Status Indicators** — let you know if the power bank is charging, receiving power or providing DC output.

**Alkaline Battery Sensor** — Detects the presence of alkaline batteries and protects the power bank by preventing charging of alkaline batteries when you use alkaline batteries as the power source.

## A Quick Look at Your Charger



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## *Operation*

### **SELECTING THE RIGHT ADAPTAPLUG™ ADAPTER**

An Adaptaplug adapter allows you to match the size and polarity of your portable device's DC input jack.

One Adaptaplug adapter, of your choice, comes with the power bank when you purchase it. Other sizes are available at your local RadioShack store.

#### **Adapter Compatibility**

The power adapter's output voltage setting must be exactly the same number as the voltage your portable device requires. Also, the power adapter's current must

be equal to or more than the current your portable device requires.

Device's Rating	Adapter's Maximum Output Current
3, 4.5, or 6VDC	1000mA
7.5VDC	800mA
9VDC	660mA

1. Set the output selector switch to the correct setting for your portable device (3/4.5/6/7.5/9VDC).
2. If the power jack on your portable device is marked  $\ominus \text{---} \oplus$ , align **TIP** on the power cord with + on the Adapta-plug.

If the power jack is marked  $\oplus \text{---} \ominus$ , align **TIP** on the power cord with – on the Adapta-plug.

## **Important:**

- Your portable device must be rated 3, 4.5, 6, 7.5, or 9VDC (see “Adapter Compatibility” on Page 14).
- Plugging the adapter into a portable device that has different ratings could damage the portable device or the adapter.
- Be sure to set the correct tip polarity. Incorrect tip polarity can damage the portable device or the adapter.



## USING AS AN AC TO DC ADAPTER

1. Disconnect the charger from AC power to change the output voltage selector.

**Caution:** Do not change the **3/4.5/6/7.5/9V** setting while the charger is connected to AC power. Doing so could damage the charger.

2. Use a flat-blade screwdriver to rotate **3/4.5/6/7.5/9V** to the desired output voltage.
3. Insert the supplied DC output cord's plug into the charger's DC output jack.

4. For devices which require 3/4.5/6/7.5/9V DC power, connect an Adaptaplug adapter to the output socket of the supplied DC cord, taking care to orient the plug for proper polarity.
5. Plug the charger into a standard AC outlet. The POWER indicator lights. Then insert the other end of the Adaptaplug into the device's power jack. The DC OUTPUT indicator lights.

If the DC OUTPUT indicator turns off when the charger is in use, the output current is beyond specifications and the overload/short circuit protection is activated. Disconnect the charger from AC power then from the device. Check the current requirement of your portable device.

*If the required current is within specification (See “Adapter Compatibility” on Page 14), wait for at least 10 seconds before reconnecting the adapter. Reconnect the adapter to the AC power first, then to the device. If the indicator still flashes or turns off, the power bank or your portable device may be defective.*

*If the required current does not match this adapter’s current, do not use this power bank.*

## **USING AS A DC TO DC CONVERTER**

You can use the power bank as a DC to DC converter to power devices which require 3/4.5/6/7.5/9V of DC power.

You can use Ni-Cd, Ni-MH, or alkaline batteries when you use the power bank as a DC to DC converter.

**Warning:** Use only four of the same type of rechargeable batteries. Do not mix Ni-Cd and Ni-MH batteries together.

**Cautions:**

- Use only fresh, fully charged batteries of the required size and recommended type.
- Do not mix old and new batteries or different types of batteries (alkaline or rechargeable).

Follow these steps to use the power bank as a DC to DC converter.

1. Follow the instructions under “Using as an AC to DC Adapter” on Page 17, Steps 2–4 to connect the DC cord to the charger.
2. Lift the battery chamber cover and insert four fully charged rechargeable or alkaline AA batteries into the battery chambers as indicated by the polarity symbols (+ and –) marked inside each bay.
3. Close the battery chamber cover. If the cable is connected to the DC output jack, the DC OUTPUT indicator lights.
4. Insert the other end of the Adapta-plug into the device’s power jack.

When the batteries are low, the DC OUTPUT indicator turns off or flashes. Recharge or replace the batteries.

**Warning:** Dispose of old batteries promptly and properly. Do not burn or bury them.

If you do not plan to use the charger with batteries for a month, remove the batteries. Batteries can leak chemicals that can destroy electronic parts.

**Notes:**

- You must insert four AA batteries into the chambers or the power supply will not provide DC power to the device you want to power.

- If the DC OUTPUT indicator turns off when the charger is in use, the output current is beyond specifications and the overload/short circuit protection is activated or the batteries might be low. Disconnect the DC cord and the device from the charger and check the current requirement of your portable device (see “Adapter Compatibility” on Page 14).

*If the required current is within specification (see “Adapter Compatibility” on Page 14), wait at least 10 seconds. Reconnect the DC cord to the charger, then to the device. If the indicator still flashes or turns off, the power bank or your portable device may be defective.*

*If the required current does not match this adapter's current, do not use this power bank.*

When the batteries are low, the DC OUTPUT indicator turns off or flashes. Recharge or replace the batteries.

- To conserve power when the charger is in standby, always disconnect the DC cord from the charger.

## **USING AS A CHARGER**

### **Notes:**

- It is normal for the batteries to become warm while charging.



- See “Specifications” on Page 29 for indoor and outdoor charging temperatures. Cold batteries will not charge fully. If the area is too warm, the batteries can permanently lose their ability to charge.
- If you accidentally leave alkaline batteries in the chambers, the charger’s alkaline battery sensor prevents charging alkaline batteries.

## **Charging Batteries**

You can charge two or four AA size, Ni-Cd or Ni-MH batteries with this charger.

**Caution:** Do not charge both Ni-Cd and Ni-MH batteries at the same time.

Follow these steps to charge batteries.

**Note:** Be sure the DC output cord is disconnected from the power bank. The charger will not operate when the DC output cord is connected.

1. Lift the battery chamber cover and insert two or four AA rechargeable batteries into the charging chamber(s) as indicated by the polarity symbols (+ and –) marked inside the bay's chamber.

**Note:** If you choose to charge two AA batteries, insert them into the left (#1) chamber.

2. Plug the charger into a standard AC outlet. The POWER and CHARGING indicators light.

## Notes:

- If the CHARGING indicator flashes, a faulty battery or short-circuit exists, or an alkaline battery is in the chambers. Replace the battery. If the CHARGING indicator still flashes, contact your local RadioShack store for assistance.
- If the supplied DC cord's plug is connected to the charger's output jack, the charger does not charge the batteries and the CHARGING indicator does not light. The DC OUTPUT indicator lights. Once the DC cord is disconnected from the charger, the charger starts charging the batteries and the CHARGING indicator lights.

- If two batteries installed in the left chamber have been charging for over five minutes, and you then install two batteries in the right chamber, the charger does not charge the batteries in the right chamber.
3. When the batteries are fully charged, the CHARGING indicator turns off. Unplug the charger from the AC outlet, then remove the batteries from the charger or you may begin using it as a DC to DC power bank for your portable device.



## ***Specifications***

### Input Voltage

AC/DC Adapter ... AC 90–240V, 50/60Hz

DC/DC Converter ..... DC 4–7V  
(4 × AA batteries)

### Maximum Output Voltage Current (mA)

#### for each Output Voltage

..... 3.0V ± 5%, 1000 mA

..... 4.5V ± 5%, 1000 mA

..... 6.0V ± 5%, 1000 mA

..... 7.5V ± 5%, 800 mA

..... 9.0V ± 5%, 660 mA

Charging Current ..... 600 mA

Safety Timer ..... 4 hours

Trickle Charge Current ..... 40 mA

Battery Leakage Current ..... < 0.5 mA

### Operating Temperature

Indoor .....	32° to 113° F (0° to 45° C)
Outdoor .....	-4° to 140° F (-18° to 60° C)

Storage Temperature ..... -13° to 140° F  
(-25° to 60° C)

Dimension (HWD) .....  $5\frac{1}{16} \times 3\frac{3}{16} \times 1$  Inches  
(128 × 81 × 25 mm)

Specifications are typical; individual units might vary. Specifications are subject to change and improvement without notice.

## Limited Ninety-Day Warranty

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for ninety (90) days from the date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, RadioShack SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RadioShack HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. (continued)

(continued) In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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