Bushnell®
OUTDOORS

POWERSYNC™

BatteryChargers

AA RECHARGER

POWERCHARGER

Quick Start Guide

IMPORTANT SAFETY INFORMATION

Please read this manual in its entirety before operating your Bushnell POWERSYNC product. It contains important information concerning the setup, operation and maintenance of the product. Keep this manual for future reference.

- WARNING: This product should only be used with the supplied charging unit and accessories (not included with all models). Use of a charger or accessories not recommended or supplied by Bushnell may result in product damage, fire, electrical shock or injury, and will void your product warranty.
- CAUTION: Do not use the product to charge an external device at the same time as the internal battery is being charged by the AC wall charger.
- CAUTION: Do not operate the product in an environment where temperatures exceed 112°F/45°C
- CAUTION: Do not submerge the product in water, or attempt to operate the product after it has been exposed to water.
- CAUTION: Do not attempt to open the product. There are no user serviceable internal parts. Disassembling the product will void your warranty. The rechargeable battery must be replaced by a qualified technician.
- CAUTION: Check adaptors for correct fit and compatibility before using the product to charge electronic devices. Improperly used adaptors can be a shock hazard and may damage the electronic device.
- CAUTION: Before operating the product or connecting it to any other device, check to ensure that all cables are not damaged. Extreme heat, water, petroleum products and sharp edges all have the potential to damage cables. Do not use any cable with exposed wiring.
- CAUTION: Charge your connected devices in an area away from the direct sun if possible.
- WARNING: EXPLOSION HAZARD! - Do not incinerate any Bushnell POWERSYNC product, or attempt to use it in a microwave oven.
- WARNING: Bushnell POWERSYNC products are not intended for powering any medical equipment, life support devices, or any other critical equipment.
- CAUTION: Do not clean your Bushnell POWERSYNC product with anything other than a damp rag. The use of cleaning chemicals or other products may harm the unit and will void your warranty.
- Do not dispose of any Bushnell POWERSYNC product as you would normal household trash. Please contact your local government authority for directions regarding the proper disposal of products containing a Lithium Ion battery.

PACKING LIST

This POWERSYNC model includes the following items:
- BatteryCharger (Model PP2020 or PP2010)
- USB Cable
- AC Wall Charger
- 4 NiMh AA Batteries (Model PP2010 only)
- Quick Start Guide

**AC Wall Charger
with USB cable connected**

HOW THE BATTERYCHARGERS WORK

The PowerCharger (PP2020) with internal power source *(Lith-Ion battery)* and the AA Recharger (PP2010) with removable power source *(AA NiMh batteries)* store electrical energy, so it can be used to recharge your portable electronic devices whenever you're away from your home or campsite. Press the orange lid latch button on the side of the battery charger to access the Input and Output ports as shown below.

INPUT-Used for charging the BatteryCharger's internal battery from wall charger.

**FROM WALL CHARGER
USB PORT**
(standard USB plug)

**TO BatteryCharger
INPUT PORT**
(micro USB plug)

OUTPUT-Used for charging your device(s) from the BatteryCharger's internal battery (once charged via AC wall charger)

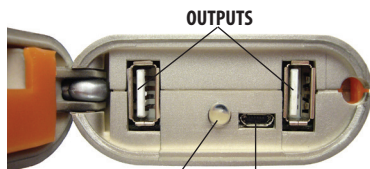**FROM BatteryCharger
OUTPUT PORT**
(standard USB plug)

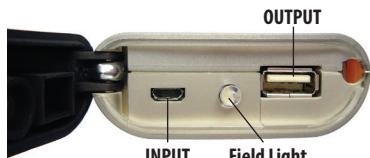**TO PORTABLE DEVICE
CHARGING PORT***
(micro USB plug)

* Use USB charging cable included with your device if this connector is not compatible.

OUTPUTS

PP2020   **Field Light**   **INPUT**

OUTPUT

PP2010   **INPUT**   **Field Light**

**Lid Latch
Button**

CHARGING THE BATTERYCHARGER FROM THE WALL CHARGER

1. ***(Model PP2010 only)*** Press the front battery pod grip *(A)* in until it clicks, then pull the battery pod *(B)* out of the bottom of the battery charger. Insert the 4 supplied AA NiMh rechargeable batteries if they are not already in place.
2. Press the lid latch button and pull open the top of the BatteryCharger.
3. Connect the USB cable to the micro-USB INPUT port from the USB port on the supplied AC charger *(see packing list)*, and plug it into a wall outlet (100-240v).
4. Press the Power button at the center of the PowerSync Power Gauge *(C)*. All four LEDs on the Power Gauge *(Fig. 1)* will light up *(for 10 min.)* when the BatteryCharger's internal battery has been fully charged *(you may leave it connected to the charger overnight without risk of overcharging)*, and you're ready to connect and charge your device.

CHARGING YOUR DEVICE FROM THE BATTERYCHARGER

Press the power button at the center of the PowerSync Power Gauge *(C)* to check the BatteryCharger's charge status, then connect the supplied USB cable from the OUTPUT port of the BatteryCharger to your device to recharge it. If your device uses a non-standard type of connector, use the cable that came with it to connect to the BatteryCharger's OUTPUT port. Check the charge indicator on your device to determine when it's ready to use. ***The NiMh AA batteries inside the PP2010 may also be removed and used to power any device that operates on AA batteries (unless the use of rechargeable batteries is not recommended).***

STORING & TRANSPORTING THE BATTERYCHARGER

Close the top lid when storing or transporting the BatteryCharger, to help keep dirt and debris out of the USB ports.

C **PowerSync Power Gauge**

B **NiMh AA Battery Pod** *(PP2010 only)*

Power Button

A **Battery Pod Grip (front side)** *(PP2010 only)*

WARNING: INSERT ONLY NiMh AA BATTERIES IN THE PP2010. NEVER ATTEMPT TO CHARGE ALKALINES OR LITHIUMS.

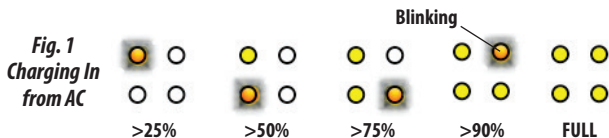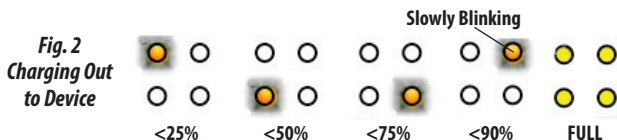## UNDERSTANDING THE POWERSYNC POWER GAUGE

The 4 LED charge indicators behind the Power Gauge *(C)* allow you to monitor the status of the BatteryCharger's internal battery. While the battery is charging from the AC wall charger, the LEDs will light up in sequence to show the charge level as shown in *Fig. 1.* The LED indicating the current battery level will blink rapidly while charging. When charging is complete, all LEDs remain on for 10 min., then shut off until the Power button is pressed.

Blinking

*Fig. 1
Charging In
from AC*

>25%   >50%   >75%   >90%   FULL

While the BatteryCharger is charging your connected device (Power button must be pressed), the LEDs will monitor the BatteryCharger's battery level as shown in *Fig. 2,* with a single LED blinking once every 15 sec. (shows active charging but conserves battery power).

Slowly Blinking

*Fig. 2
Charging Out
to Device*

<25%   <50%   <75%   <90%   FULL

You can also check the current level of the BatteryCharger's battery charge anytime by pressing the Power button, even when it is not connected to the charger or an external device. The LEDs will glow steadily to indicate the charge level % as shown in *Fig.3.* , then shut off after 10 seconds.

Blinking

*Fig. 3
Checking
Charge Level*

<25%   >25%   >50%   >75%   FULL

The Field Light will glow during charging. You can also press the power button at any time to turn it on to help insert the USB cable into the Output port when you're charging at night.
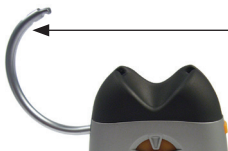
Field Light

TECHNICAL SPECIFICATIONS

Model	PP2020 PowerCharger	PP2010 AA Recharger
Weight	9.3 oz / 167 g	7.9 oz / 153 g
Size	5.9 x 3.3 x 1.1 in.	5.0 x 3.1 x 0.9 in.
Charge Time (Wall Charger)	approx. 8 hrs.	approx. 5 hrs.
Power Output	5 volts, 1 amp (1000 mA)	5 volts, 1 amp (1000 mA)
Internal Battery Type	High Capacity Lith Ion (20 Whr)	n/a
Removable Batteries (included)	n/a	4x NiMh rechargeable AA (2000ma)
USB Inputs / Outputs	1 / 2*	1 / 1
Operating Temp. Range	-4 ~ 112º F (-20~44º C)	-4 ~ 112º F (-20~44º C)
Storage Temp. Range	-4 ~ 140º F (-20~60º C)	-4 ~ 140º F (-20~60º C)
Recommended Devices/# of Charges** *(from fully charged internal battery)*	Cell Phones (inc Smartphones)/3x, MP3 Players/4x, Digital Cameras/7x, Tablet/1x *Note: Tablets and other devices have higher power requirements and may not attain a full charge from the BatteryCharger battery.*	Cell Phones (inc Smartphones)/1x, MP3 Players/2x, Digital Cameras/2.5x *Note: Tablets and other devices have higher power requirements and may not attain a full charge from the BatteryCharger battery.*

* Two devices may be charged simultaneously. They will not charge any slower than if only one device was connected, however the PowerCharger's internal battery charge will be depleted more rapidly.

** Rechargeable batteries in electronic devices charge at different rates, depending on many factors including temperature, age and circuit design. Bushnell provides examples of charges per device, based on typical product use and are not intended to be specific to any single device.

After pressing orange lid latch button, *carabiner clip* can be opened for easy attachment to backpacks, belt loops, etc. Press clip back into place and secure latch before transporting.

WARNING: MODEL PP2010 IS DESIGNED TO RECHARGE ONLY NiMh (Nickel Metal Hydride) AA RECHARGEABLE BATTERIES. USE ONLY THE SUPPLIED NiMh BATTERIES OR COMPARABLE REPLACEMENTS. NEVER ATTEMPT TO CHARGE ALKALINE OR LITHIUM AA BATTERIES IN THE PP2010.

FCC Compliance Statement

This device complies with Part 15 of the FCC interference limits for Class B digital devices FOR HOME OR OFFICE USE. These limits are designed to provide reasonable protection against harmful interference in a residential installation, and are more stringent than "outdoor" requirements.

Operation of this device is subject to the following 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.

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.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The device does not contain any user-serviceable parts. Repairs should only be made by an Authorized Bushnell repair center. Unauthorized repairs or modifications could result in permanent damage to the equipment, and will void your warranty and your authority to operate this device under Part 15 regulations.

The shielded interface cable which is provided must be used with the equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules.

Specifications and designs are subject to change without any notice or obligation on the part of the manufacturer.

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