



# POWERTANK

LITHIUM

Rechargeable Power Supply  
**INSTRUCTION MANUAL** #18771



ENGLISH

## Table of Contents

Features and contents of PowerTank Lithium . . . . .	3
Operation Of PowerTank Lithium . . . . .	4
Charging the battery . . . . .	4
Checking the Remaining Battery Charge . . . . .	4
Charging USB Devices . . . . .	4
Powering a Telescope . . . . .	5
Illumination . . . . .	5
Attaching the PowerTank Lithium to your Telescope . . . . .	5
Technical Data . . . . .	6
Disposal . . . . .	6
Warning . . . . .	6
Celestron Two Year Limited Warranty . . . . .	6
FCC Note . . . . .	8

## Features and Contents of PowerTank Lithium



1. Charge status indicator
2. Power button
3. USB port charging indicator LED (green)
4. Ports for charging USB devices
5. Lighting control button
6. Charging Port / 12VDC Output Port
7. Tripod leg mount



8. LED light panel
9. Celestron telescope power cable (6.5' long)
10. 100-240V AC charger (16VDC – 2 A)
11. Tripod leg strap
12. Hanging strap
13. International Adapter Plugs (x4)



## OPERATION OF POWERTANK LITHIUM

### Charging the Battery

1. Determine which AC plug adapter you need for your location and slide it into place on the charger body. Make sure it is fully seated and snaps into place.
2. Pull the rubber cover from the charging port on the side of the PowerTank Lithium and plug in the charger's cable.
3. Plug in the charger to your electrical outlet. The adapter can accept an input of 100 to 240V at 50/60Hz.
4. The Battery Indicator lights will blink when charging. When charging is complete, all of the lights will remain lit.

NOTE: If you are traveling internationally with this device, it may be necessary to change to a different plug adapter. Simply depress the locking button on the charger (located directly below the plug), slide the plug adapter off and replace it with the adapter you need.

**Warning: The charger has an output of 16 Volts DC. Do not attempt to use this charger to power your telescope directly or significant damage to your telescope will result.**

### Checking the Remaining Battery Charge

Press the power button once and the battery indicator lights will light up showing the amount of power left in the battery. All four lights means the battery is full, 3 lights is 75%, 2 lights is 50% and 1 light is 25%.

### Charging USB Devices

Lift up the rubber seal on the top surface of the PowerTank Lithium to expose the control panel. Plug one end of the USB charging cable that came with the device you wish to charge into one of the two USB ports on the PowerTank Lithium. Plug the other end of the cable into your device. Press the Power button on the control panel once to begin charging. A green light will appear next to the USB port showing that the power is flowing. The charger automatically shuts off when the load drops below 100mA for 1 hour. If you want to end the charging session early, simply unplug your device's cable from the power supply.

Some devices, such as tablets and GPS devices require more current to charge than other devices such as cell phones. The PowerTank Lithium offers two 5 Volt DC ports with current outputs of 1 Amp and 2.1 Amps.

Choose the port that works best for your device. Consult the literature that came with your device if you are not sure which to use.

### **Powering a Telescope**

Pull the rubber cover from the charging/power port on the side of the PowerTank Lithium and plug in the telescope power cord. The cord has identical connectors on both sides so it does not matter which direction it is used. Press the power button on the control panel twice to activate power. The battery indicator lights will blink in sequence to show that power is flowing.

NOTE: The PowerTank Lithium can provide power from the 12 Volt output or provide power through the USB outputs, but not both at the same time.

### **Illumination**

The LED light panel can be used with red or white light. Red light will allow you to see in the dark while protecting your night vision. White light can be used when protecting your night vision is not important.

To activate the red LEDs, press the lighting control button once. To increase the brightness, press the button a second time. To turn it off, press it a third time.

To activate the white LEDs, press and hold the lighting control button for two seconds. To increase the brightness, press the button again. To turn it off, press and hold the button for two seconds.

### **ATTACHING THE POWERTANK LITHIUM TO YOUR TELESCOPE**

The PowerTank Lithium can be set on a telescope accessory tray in either horizontal or vertical orientation. It can also be attached to a tripod leg by using the 2.5 inch wide hook and loop strap. Slip the strap through the two slots in the tripod leg mount. Start by wrapping the strap around the tripod leg, then feeding the end of the strap through the buckle. Pull the strap back and secure the hook and loop strap to the desired tension.

You can also hang the PowerTank Lithium from any of the anchor points in either end cap via the clips on the hanging strap. It can be hung in any orientation – vertical, horizontal, or even inverted.

## TECHNICAL DATA

Battery Chemistry: Lithium Iron Phosphate (LiFePO<sub>4</sub>)

Battery Capacity: 84.4 Wh

Input: 16V DC, 2000 mA

Charge time: 4 hours

Output current for telescope: 12V DC @ 3A

Output for USB devices: 5V DC @ 1A and 5V DC @ 2.5A

## DISPOSAL

Follow local ordinances when disposing of this product. If you are unsure of how to dispose of this product, contact the local authority in your municipality.

## WARNING

Unauthorized conversion and/or modification of the device are inadmissible due to safety reasons. Any usage of this device other than those described above can damage the product and lead to associated risks such as short circuit, fire, electric shock, etc. Please read the operating instructions thoroughly and keep them for further reference.

We do not assume liability for resulting damages to property or personal injury if the product has been abused in any way or damaged by improper use or failure to observe these operating instructions.

This product is not a toy and should be kept out of reach of children and pets.

## CELESTRON TWO YEAR LIMITED WARRANTY

**A.** Celestron warrants your product to be free from defects in materials and workmanship for two years. Celestron will repair or replace such product or part thereof which, upon inspection by Celestron, is found to be defective in materials or workmanship. As a condition to the obligation of Celestron to repair or replace such product, the product must be returned to Celestron together with proof-of-purchase satisfactory to Celestron.

**B.** The Proper Return Authorization Number must be obtained from Celestron in advance of return. Please submit your request to Celestron's online technical support center at <https://www.celestron.com/pages/technical-support> or call (310) 328-9560 to receive the number to be displayed on the outside of your shipping container.

All returns must be accompanied by a written statement setting forth the name, address, and daytime telephone number of the owner, together with a brief description of any claimed defects. Parts or product for which replacement is made shall become the property of Celestron.

The customer shall be responsible for all costs of transportation and insurance, both to and from the factory of Celestron, and shall be required to prepay such costs.

Celestron shall use reasonable efforts to repair or replace any Product covered by this warranty within thirty days of receipt. In the event repair or replacement shall require more than thirty days, Celestron shall notify the customer accordingly. Celestron reserves the right to replace any product which has been discontinued from its product line with a new product of comparable value and function.

This warranty shall be void and of no force of effect in the event a covered product has been modified in design or function, or subjected to abuse, misuse, mishandling or unauthorized repair. Further, product malfunction or deterioration due to normal wear is not covered by this warranty.

CELESTRON DISCLAIMS ANY WARRANTIES, EXPRESSED OR IMPLIED, WHETHER OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE, EXCEPT AS EXPRESSLY SET FORTH HEREIN. THE SOLE OBLIGATION OF CELESTRON UNDER THIS LIMITED WARRANTY SHALL BE TO REPAIR OR REPLACE THE COVERED PRODUCT, IN ACCORDANCE WITH THE TERMS SET FORTH HEREIN. CELESTRON EXPRESSLY DISCLAIMS ANY LOST PROFITS, GENERAL, SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES WHICH MAY RESULT FROM BREACH OF ANY WARRANTY, OR ARISING OUT OF THE USE OR INABILITY TO USE ANY CELESTRON PRODUCT. ANY WARRANTIES WHICH ARE IMPLIED AND WHICH CANNOT BE DISCLAIMED SHALL BE LIMITED IN DURATION TO A TERM OF TWO YEARS FROM THE DATE OF ORIGINAL RETAIL PURCHASE.

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

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Celestron reserves the right to modify or discontinue, without prior notice to you, any model or style telescope. If warranty problems arise, or if you need assistance in using your product, please visit Celestron's online technical support center at <https://www.celestron.com/pages/technical-support>, or call 1- 800.421.9649.

NOTE: This warranty is valid to U.S.A. and Canadian customers who have purchased this product from an authorized Celestron dealer in the U.S.A. or Canada. Warranty outside the U.S.A. and Canada is valid only to customers who purchased from a Celestron's International Distributor or Authorized Celestron Dealer in the specific country. Please contact them for any warranty service.

## FCC NOTE

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 residential 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.
- 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.

