

# LabQuest Battery Boost 2 (LQ-BOOST2)



The Battery Boost 2 is a rechargeable external battery for your LabQuest interface. With the added power of an external battery, data can be collected for extended periods in the field where AC power is not available. When fully charged, the Universal USB Battery Pack should power a LabQuest for over 12 hours. Actual battery life will depend on the number and type of sensors being used in an experiment.

## What is Included with the LabQuest Battery Boost 2

- Universal USB Battery Pack
- Power-In cable
- Power-Out cable
- Wall charger
- Car charger



## About the Battery Pack

The battery pack has a power button (1), a gray low-power USB port (2), an orange high-power USB port (3), a charge indicator light (4), and a port that is used to charge the battery pack (5). The battery pack will automatically turn off when not in use.

## Testing the Battery Pack

Make sure the battery pack is fully charged before use. To test it, press the power button. Verify that the charge indicator light indicates that the battery is fully charged.



## Charging the Battery Pack

There are three ways to charge the battery pack:

- **Charging the Battery Pack with a USB Port.** Locate the Power-In cable and plug it into the proper port of the battery pack. Plug the other end of the cable into any standard USB port. The battery pack LEDs should light sequentially. This indicates that the battery is charging. The battery will be fully charged in 18–20 hrs.
- **Charging the Battery Pack with the Wall Charger.** Locate the wall charger that came with the battery pack. Connect the Power-In cable to the USB port of the wall charger. Plug the other end of the Power-In cable to the appropriate port on the battery pack. Plug the wall charger into an appropriate AC power source. The battery pack LEDs should light sequentially. The battery should be fully charged in less than 6 hrs.
- **Charging the Battery Pack with the Car Charger.** Locate the Power-In cable and plug it into the proper port of the battery pack. Plug the other end of the cable into the USB port on the car charger. Plug the car charger into the appropriate auxiliary power port in your car. The battery pack LEDs should light sequentially. The battery should be fully charged in 18–20 hrs.



## Using the Battery Pack with the original LabQuest or LabQuest 2

Locate the Power-Out cable. Connect the Power-Out cable to the LabQuest power port. Plug the other end of the cable into the high-power (orange) USB port of the battery pack. Hold the battery pack power button for two seconds. The battery pack LEDs should light and then will turn off. Observe the battery icon of your LabQuest. It should indicate that you are connected to external power.



## Life of the Battery Pack

The battery pack is rated for 300–500 full charging cycles. Discharge and charge the battery fully every five months to preserve battery life.

## Important Additional Information

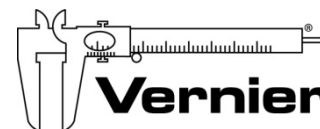
- Store between –20 to 35°C (–4 to 95°F).
- Charge between 0 to 45°C (32 to 113°F).
- Do not expose the battery to high heat or direct flame.
- Dispose of properly. Do not throw in trash or incinerate.
- Do not get battery wet, store in high humidity, or otherwise short circuit.
- Do not disassemble or tamper with battery.

## Specifications

Battery type	Li-Polymer
Capacity	12000 mAh
Output	
Low Power (Gray) USB Port	5 V, 1 A
High Power (Orange) USB Port	5 V, 2 A
Input	5–6 V, up to 2 A
Weight	11 oz (312 g)
Dimensions	4" x 4 1/4" x 3/4" (104 x 107 x 19 mm)
Protection	Short Circuit, Over Charge, Over Current, Over Temperature

## Warranty

Vernier warrants this product to be free from defects in materials and workmanship for a period of 1 year from the date of shipment to the customer. This warranty does not cover damage to the product caused by abuse or improper use.



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