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› RAVPower 20100mAh PD Power Bank RP-PB059 User Manual

## RAVPower RP-PB059

# RAVPower 20100mAh PD Power Bank (RP-PB059) User Manual

Model: RP-PB059

## INTRODUCTION

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Thank you for choosing the RAVPower 20100mAh PD Power Bank (RP-PB059). This portable charger is designed to provide efficient and versatile power solutions for your mobile devices and USB-C laptops. Featuring Power Delivery (PD) technology, iSmart 2.0 USB-A ports, and a data transfer hub function, it offers fast charging and enhanced connectivity. Please read this manual thoroughly before use to ensure proper operation and safety.

## PACKAGE CONTENTS

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- RAVPower 20100mAh PD Power Bank (RP-PB059)
- USB-C to USB-C Cable
- User Manual
- Travel Pouch (may vary by region)

## PRODUCT DIAGRAM

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Familiarize yourself with the various components and ports of your power bank.

## LED Battery Indicator



## 2A Micro-USB Input

## 2.4A USB Output



Image: Top view of the RAVPower RP-PB059 power bank highlighting the LED battery indicator, Micro-USB input, and USB-A output ports.

- **LED Battery Indicators:** Four blue LEDs indicate the remaining battery level. Each LED represents approximately 25% of the battery capacity.
- **Power Button:** Press once to check battery level or initiate charging.
- **USB-C Port (Input/Output):** Supports Power Delivery (PD) for fast charging of the power bank and compatible devices.
- **iSmart 2.0 USB-A Ports (Output):** Two ports providing up to 2.4A output each, compatible with most smartphones and tablets.
- **Micro-USB Input Port:** Used for recharging the power bank with a standard Micro-USB cable.

## SETUP

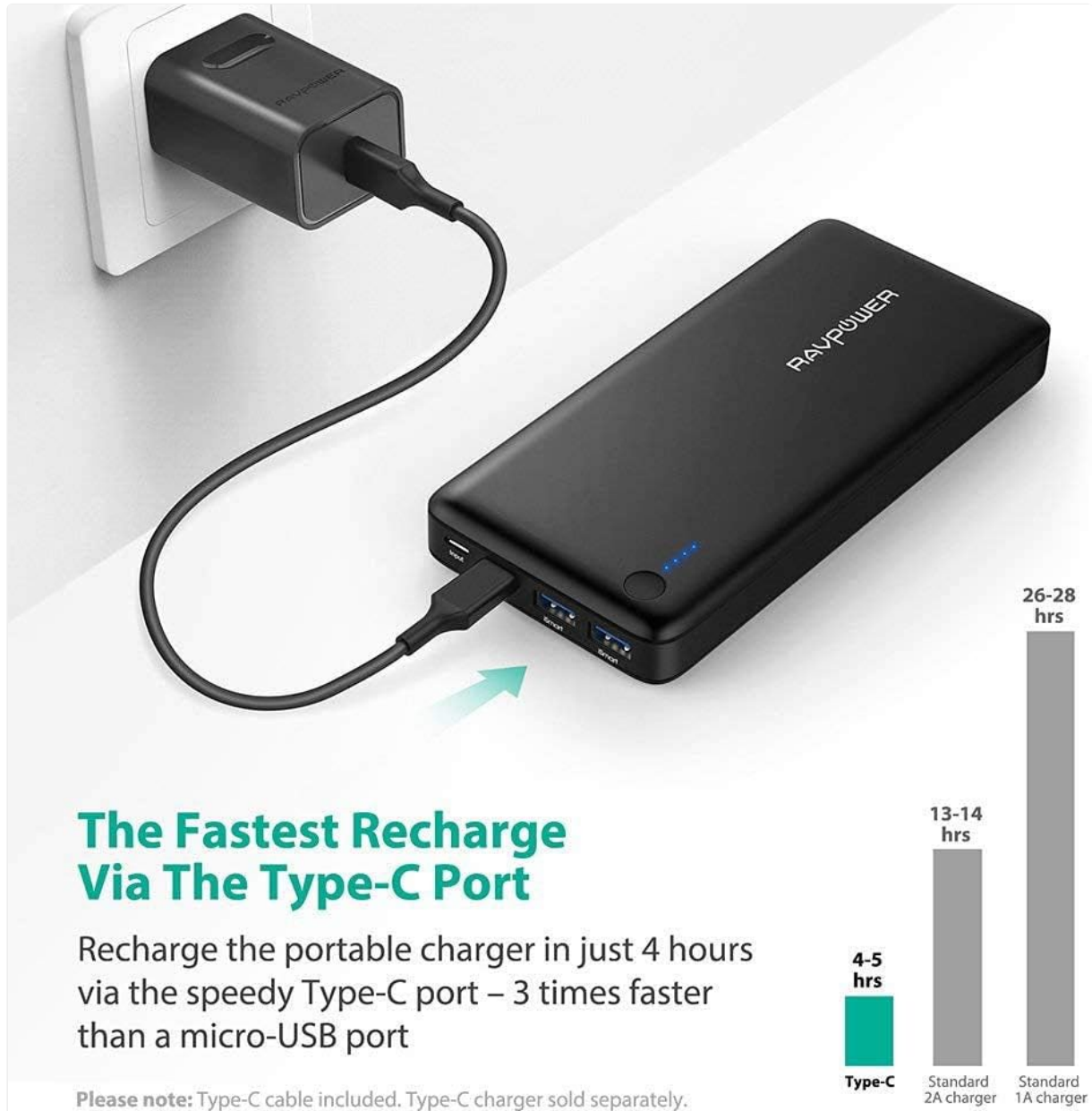
### Initial Charging of the Power Bank

Before first use, fully charge your RAVPower power bank. This ensures optimal battery performance.

1. Connect the provided USB-C to USB-C cable to the power bank's USB-C port and to a compatible USB-C PD wall charger (not included).
2. Alternatively, connect a Micro-USB cable to the power bank's Micro-USB input port and to a standard USB

wall charger (not included).

- The LED indicators will light up progressively during charging. All four LEDs will be solid blue when fully charged.



**The Fastest Recharge Via The Type-C Port**

Recharge the portable charger in just 4 hours via the speedy Type-C port – 3 times faster than a micro-USB port

Please note: Type-C cable included. Type-C charger sold separately.

Charging Method	Charging Time
Type-C	4-5 hrs
Standard 2A charger	13-14 hrs
Standard 1A charger	26-28 hrs

Image: The RAVPower RP-PB059 power bank connected to a wall charger via its Type-C port, illustrating the faster recharge time compared to Micro-USB.

#### Charging Time:

- Via 30W USB PD Charger (USB-C Port): Approximately 4 hours.
- Via 5V/2A Charger (Micro-USB Port): Approximately 10.5 hours.

## OPERATING INSTRUCTIONS

### Charging Mobile Devices

The power bank can charge up to three devices simultaneously using its USB-C and two USB-A ports.

- Connect your device to one of the power bank's output ports (USB-C or USB-A) using an appropriate charging cable.
- The power bank will automatically begin charging your device. If not, press the power button once.

3. The LED indicators will show the remaining battery level of the power bank.



Image: The RAVPower RP-PB059 power bank connected to and charging both a laptop via USB-C and a smartphone via USB-A, demonstrating multi-device charging capability.

**Power Delivery (PD) Charging:** The USB-C port supports up to 30W PD output, ideal for fast charging compatible smartphones, tablets, and USB-C laptops like MacBook Pro/Air, iPhone XS/XR/X/8, Google Pixel 3, iPad Pro, and Nintendo Switch.

**iSmart 2.0 USB-A Charging:** The two USB-A ports provide optimized charging for most standard USB-powered devices, delivering up to 2.4A per port.

### **Data Transfer Function (USB Hub Mode)**

The power bank can function as a USB 2.0 data hub when connected to a laptop via its USB-C port.

1. Connect the power bank's USB-C port to your laptop's USB-C port using a USB-C to USB-C cable.
2. Connect USB devices (e.g., USB flash drive, mouse, keyboard) to the power bank's iSmart 2.0 USB-A ports.
3. Your laptop will recognize the connected USB devices, allowing for data transfer or peripheral use.



## Data Transfer Functions

Connect the portable charger to your PC with the Type-C port, you can seamlessly transfer files from your device to the PC or connect a mouse or keyboard.

Note: Data transfer is possible while connecting the iSmart 2.0 USB output and the Type-C port only.

Image: The RAVPower RP-PB059 power bank acting as a data hub, connected to a PC via its Type-C port, enabling data transfer from a smartphone connected to one of its USB-A ports.

Note: Data transfer is possible while connecting the iSmart 2.0 USB output and the Type-C port only.

### Checking Battery Level

Press the power button once to view the current battery level indicated by the blue LEDs:

- 4 LEDs: 75% - 100%
- 3 LEDs: 50% - 75%
- 2 LEDs: 25% - 50%
- 1 LED: 0% - 25%

## LED Battery Indicator



## 2A Micro-USB Input

## 2.4A USB Output



Image: A close-up of the RAVPower RP-PB059 power bank's LED battery indicators, showing four illuminated blue lights.

## MAINTENANCE

- **Storage:** Store the power bank in a cool, dry place away from direct sunlight, extreme temperatures, and high humidity.
- **Cleaning:** Use a soft, dry cloth to clean the surface of the power bank. Do not use harsh chemicals or abrasive materials.
- **Battery Care:** To prolong battery life, fully charge the power bank at least once every three months if not in regular use.
- **Safety:** The power bank features surge protection, short circuit prevention, and temperature control. Avoid dropping, disassembling, or exposing the device to water or fire.

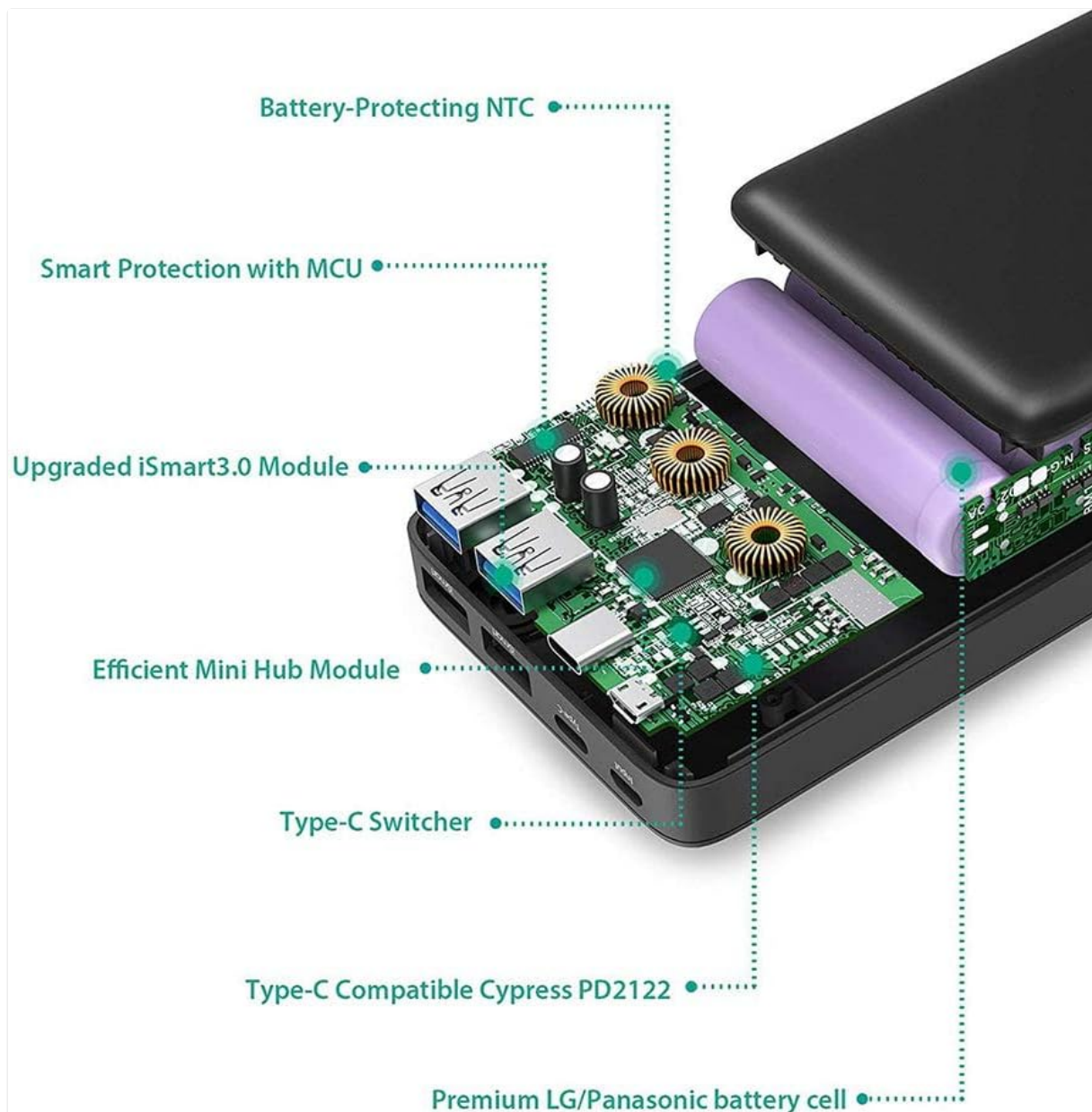


Image: An exploded view of the RAVPower RP-PB059 power bank's internal components, illustrating its advanced safety and charging technologies.

## TROUBLESHOOTING (FAQ)

Here are answers to common questions and solutions for potential issues:

### Q: How fast is the Type-C port charging?

A: The Type-C port supports multiple power levels: 5V=3A, 9V=2A, 15V=2A, 20V=1.5A, reaching a maximum of 30W output. This allows for fast charging of USB-C laptops and compatible smartphones like iPhone XS Max/XS/XR.

### Q: How fast are the USB-A ports charging?

A: The USB-A ports support Apple 2.4A fast charge, delivering up to 2.4A charging speed.

### Q: Will it charge my Nintendo Switch?

A: Yes, it can charge the Nintendo Switch in handheld mode with a maximum output of 18W. Note that when the Nintendo Switch is connected to a TV via HDMI, it requires 39W input power, which exceeds this power bank's output for that specific scenario.

### Q: How long does it take to fully recharge the power bank?

A: Using the Type-C port with a 30W USB PD charger, it takes approximately 4 hours. Using the Micro-USB port with a 5V/2A charger, it takes less than 10.5 hours.

### Q: Does it work as a USB hub for a PC?

A: Yes, when connected via Type-C to a laptop, it can function as a USB 2.0 hub. This allows you to connect devices like a mouse or keyboard to the power bank's USB-A ports and use them with your PC, or transfer files.

### Q: What is USB PD? Will I need it?

A: USB-Power Delivery (USB PD) is a fast-charging protocol that can deliver higher voltages and up to 100 watts of power. This power bank offers up to 30W PD output. You will benefit from USB PD if you have compatible devices such as iPhone XS/XS Max/XR/X/8/8 Plus, Google Pixel 3/3 XL, Samsung S9, Xiaomi MI 8/Mix 3, iPad Pro, Nintendo Switch, MacBook 12", MacBook Air (2018), and MacBook Pro 2016 and later models.

## SPECIFICATIONS

<b>Dimension</b>	172 x 78 x 20 mm / 6.77 x 3.15 x 0.79 in
<b>Weight</b>	385g / 13.6oz
<b>Battery Capacity</b>	20,100mAh
<b>Charging Ports</b>	1 x USB Type-C (PD3.0+QC3.0), 2 x USB Type-A (iSmart 2.0), 1 x Micro-USB
<b>Fast Charging Technology</b>	USB Power Delivery, iSmart 2.0
<b>USB Type-C Output</b>	5V=3A / 9V=2A / 15V=2A / 20V=1.5A (30W USB PD)
<b>iSmart Port Output</b>	5V=3.4A Total (Each 2.4A Max)
<b>USB Type-C Input</b>	5V=3A / 9V=2A / 15V=2A / 20V=1.5A (USB PD)
<b>Micro USB Input</b>	5V=2A
<b>Recharging Time</b>	4 Hours (via 30W USB PD Charger) / 10.5 Hours (via 5V=2A Charger)
<b>Other Features</b>	Hub Data Transfer (USB 2.0)
<b>Model Number</b>	RP-PB059
<b>UPC-A</b>	191280004366

## WARRANTY AND SUPPORT

RAVPower products come with a standard warranty. For detailed warranty information, product registration, or technical support, please visit the official RAVPower website or contact their customer service. Keep your purchase receipt as proof of purchase.

**Website:** [www.ravpower.com](http://www.ravpower.com)