

## SMALLRIG NP-FZ1000

# SMALLRIG 2400mAh USB-C Battery for Sony NP-FZ100 User Manual

Model: NP-FZ1000

## 1. INTRODUCTION

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The SMALLRIG 2400mAh USB-C Replacement Battery for Sony NP-FZ100 is designed to provide reliable power for a wide range of Sony Alpha cameras. Featuring a convenient USB-C charging port and a fully decoded chip, this battery ensures seamless compatibility and efficient power management for your photography and videography needs.

## 2. KEY FEATURES

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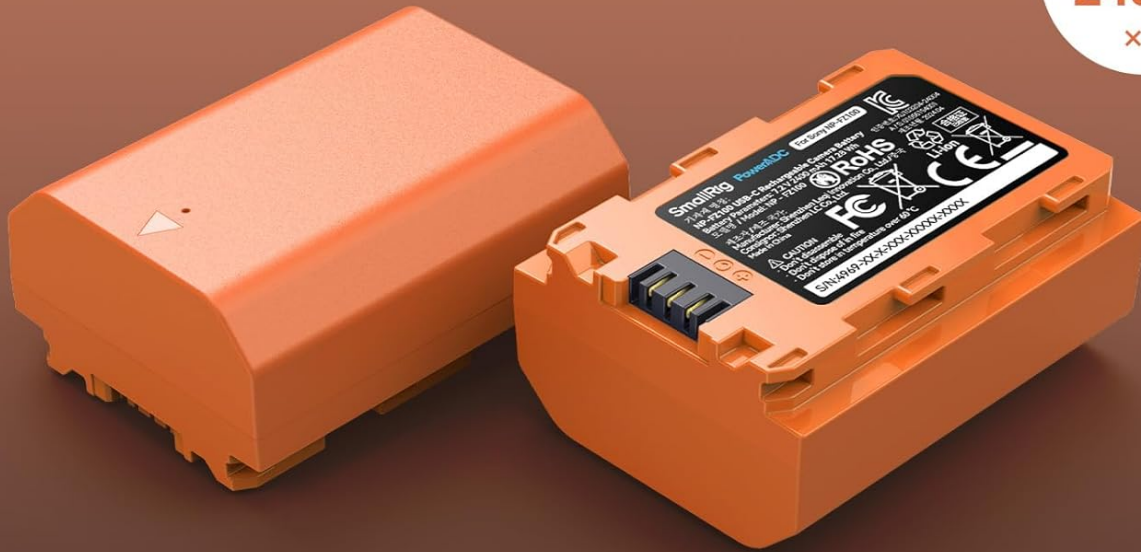
- **Replacement Battery for Sony NP-FZ100:** Fully decoded battery, ensuring no warning pop-ups and full compatibility with supported Sony Alpha cameras.
- **Rapid 2.5-Hour Charging:** Equipped with a USB-C charging port (5V/2A) for fast charging, reaching full capacity in approximately 2.5 hours. Includes a charging indicator (red for charging, green for fully charged).
- **Sufficient Battery Capacity:** Offers a true 2400mAh capacity, providing extended shooting times (e.g., 3.8 hours of video or 680 shots for Sony A7C). Supports charging via wall outlets, car chargers, power banks, and Sony BC-QZ1 chargers.
- **Pro-Grade Safety by Design:** Built with top-tier Li-ion cells and 6-layer protection (overcharge, overvoltage, overcurrent, short circuit, high temperature, over-discharge). Operates reliably from 0°C to 45°C.
- **Instant-Read Color Coding:** Distinctive orange shell for easy identification in gear bags.

## 3. COMPATIBILITY

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This SMALLRIG NP-FZ100 replacement battery is compatible with the following Sony Alpha camera models:

- Sony Alpha A7 III, A7 IV, A7S III
- Sony Alpha A7R III, A7R IV, A7R V
- Sony Alpha A7C, A7C II, A7CR
- Sony Alpha A1, A9, A9 II
- Sony Alpha A6600, A6700
- Sony FX3, FX30
- Sony ZV-E1, ZV-E10 II



## Battery Compatible Models

For Sony A7 III, A7 IV, A7S III, A7R III, A7R IV, A7R V, A7C, A7C II, A7CR, A1, A9, A9 II, A6600, A6700, FX3, FX30, ZV-E1, ZV-E10 II



Image: Visual representation of compatible Sony camera models with the SMALLRIG NP-FZ100 battery.

### 4. WHAT'S IN THE BOX

Upon opening your package, please ensure all the following items are included:

- USB-C Rechargeable Camera Battery x 1
- Battery Cover x 1
- 0.6m USB-A to USB-C Charging Cable x 1
- User Manual x 1

# In the Box

USB-C Rechargeable Camera Battery x 1  
Battery Cover x 1  
0.6m USB-A to USB-C Charging Cable x 1  
User Manual x 1



Battery Type:  
**Lithium-ion Battery**

Cell Nominal Capacity:  
**2400mAh**

Operating Temperature:  
**0°C~45°C**

Battery Specifications:  
**2400mAh 7.2V 17.28Wh**

Charging:  
**5V/Maximum 2.2A**

Battery Weight:  
**83 ± 5g**

Input Voltage:  
**8.4V**

Maximum Output Current:  
**5A**

Battery Housing Material:  
**PC+ABS**

Nominal Voltage:  
**7.2V**

Over-discharge Protection Range :  
**4.5~7.5A**

Battery Cell Specifications:  
**NCR18500A240A\*2 / YL**

Cut-off Voltage:  
**5.0V**

Image: Diagram showing the included items: battery, battery cover, USB-A to USB-C cable, and user manual.

## 5. SETUP AND FIRST USE

- 1. Unpack the Battery:** Carefully remove the SMALLRIG NP-FZ100 battery and its accessories from the packaging.
- 2. Initial Charge:** For optimal performance, fully charge the battery before its first use. Connect the provided USB-A to USB-C charging cable to the USB-C port on the battery and to a compatible USB power source (e.g., wall adapter, power bank, laptop). The charging indicator will glow red during charging and turn green when fully charged.
- 3. Insert into Camera:** Once charged, open the battery compartment of your compatible Sony Alpha camera. Align the battery with the compartment's contacts and gently slide it in until it clicks securely into place. Close the battery compartment door.



Image: The SMALLRIG NP-FZ100 battery shown with its included USB-C charging cable, illustrating the primary charging method.

## 6. OPERATING INSTRUCTIONS

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The SMALLRIG NP-FZ100 battery is designed to function identically to the original Sony NP-FZ100 battery, providing full decoding and accurate power display on your camera's screen. Simply insert the charged battery into your compatible Sony Alpha camera and power on the camera as usual.

### Battery Life Expectancy

With its 2400mAh capacity, the battery offers extended usage. For example, when used with a Sony A7C, it can support approximately 3.8 hours of continuous shooting or 680 still shots. Actual performance may vary based on camera model, shooting conditions, and usage patterns (e.g., video recording, continuous shooting, display brightness).

# Power Your Day

High capacity facilitates long-time shooting  
(2400mAh 7.2V 17.28Wh)



 **Note** It is impossible to exceed the capacity of 2400mAh due to the size of the battery.

Image: Infographic detailing the 2400mAh capacity, estimated recording time (3.8H), and number of shots (680) for a Sony Alpha 7C.

# No Warning

Use the battery with full decoding chip. No worry about a warning pop-up that the battery will damage the camera



Image: A Sony camera displaying full battery life on its screen, indicating that the SMALLRIG battery's full decoding chip prevents warning pop-ups.

## 7. CHARGING INSTRUCTIONS

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The SMALLRIG NP-FZ100 battery offers versatile charging options:

### 7.1. USB-C Charging (Recommended)

The integrated USB-C port allows for direct charging without the need for a dedicated external charger. This is ideal for on-the-go charging using common USB power sources.

1. Connect the provided 0.6m USB-A to USB-C charging cable to the USB-C port on the battery.
2. Plug the USB-A end of the cable into a compatible 5V/2A USB power source, such as:
  - USB wall adapter
  - Car charger
  - Mobile power supply (power bank)
  - Laptop USB port

3. The charging indicator light on the battery will illuminate red to indicate charging in progress.
4. Once fully charged, the indicator light will turn green. Disconnect the cable.

## Multiple Charging Ways

The battery comes with a USB-C charging interface, can be charged by USB adapter, car charger, mobile power supply, laptop, etc



Image: Illustrations showing the battery being charged via a wall adapter, car charger, laptop, and power bank using the USB-C port.

# Battery Charging Indicator

Built-in charging indicator to display charging progress. Red indicator for charging and green for fully charged, easy to read.



**Charging**



**Fully Charged**

Image: Two images of the battery, one showing a red light for 'Charging' and another showing a green light for 'Fully Charged'.

## 7.2. Traditional Charger Charging

The SMALLRIG NP-FZ100 battery is also compatible with traditional NP-FZ100 chargers.

- **Sony BC-QZ1 Charger:** Insert the battery into a Sony BC-QZ1 charger.
- **Third-Party NP-FZ100 Chargers:** The battery is compatible with most third-party NP-FZ100 battery and charger sets (e.g., SmallRig ID: 3824).



## You Can Also Charging it with



Fits for Sony Battery  
Charger **BC-QZ1**

Fit for NP-FZ100 Battery  
and Charger Set  
( ID: 3824B )



Image: Displays the battery fitting into a Sony BC-QZ1 charger and a generic NP-FZ100 dual charger.

## 8. MAINTENANCE AND CARE

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- **Storage:** Store the battery in a cool, dry place away from direct sunlight and extreme temperatures. For long-term storage, charge the battery to approximately 50-60% capacity.
- **Cleaning:** Use a soft, dry cloth to clean the battery terminals. Do not use liquid cleaners or solvents.
- **Avoid Physical Damage:** Protect the battery from drops, impacts, and crushing. Do not puncture or disassemble the battery.
- **Temperature Range:** Operate the battery within its specified temperature range of 0°C to 45°C. Avoid charging or using the battery in temperatures outside this range.
- **Disposal:** Dispose of the battery responsibly according to local regulations. Do not dispose of in household waste or by incineration.

## 9. TROUBLESHOOTING

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Problem	Possible Cause	Solution
Battery not charging via USB-C	Cable not properly connected; USB power source insufficient; Damaged cable/port.	Ensure cable is securely connected. Use a 5V/2A (or higher) USB power source. Try a different USB-C cable or port.
Battery not recognized by camera / Warning message	Battery not fully inserted; Camera firmware outdated (rare); Battery defect.	Re-insert the battery firmly. Ensure your camera firmware is up to date. If the issue persists, contact customer support.
Short battery life	High power consumption settings (e.g., 4K video, high frame rates, continuous shooting, bright LCD); Extreme temperatures; Battery degradation over time.	Adjust camera settings to conserve power. Avoid extreme temperatures. Consider replacing the battery if it's old and performance has significantly degraded.
Battery gets hot during charging/use	Normal operation (slight warmth); Overcharging/Over-discharging; Internal fault.	Slight warmth is normal. Ensure you are using a compatible charger. If it becomes excessively hot, discontinue use immediately and contact customer support.

## 10. SPECIFICATIONS

Feature	Detail
Battery Type	Lithium-ion Battery
Cell Nominal Capacity	2400mAh
Battery Specifications	2400mAh 7.2V 17.28Wh
Input Voltage	8.4V
Nominal Voltage	7.2V
Charging Input	5V/Maximum 2.2A
Maximum Output Current	5A
Over-discharge Protection Range	4.5~7.5A
Cut-off Voltage	5.0V
Operating Temperature	0°C ~ 45°C
Battery Weight	83 ± 5g
Battery Housing Material	PC+ABS
Product Dimensions	2.01 x 1.5 x 0.87 inches
Item Weight	3.6 ounces
Item Model Number	NP-FZ1000

# In the Box

USB-C Rechargeable Camera Battery x 1  
Battery Cover x 1  
0.6m USB-A to USB-C Charging Cable x 1  
User Manual x 1



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Battery Cell Specifications:  
**NCR18500A240A\*2 / YL**

Cut-off Voltage:  
**5.0V**

Image: Detailed diagram showing the dimensions and key technical specifications of the SMALLRIG NP-FZ100 battery.

## 11. SAFETY INFORMATION

The SMALLRIG NP-FZ100 battery incorporates multiple protection mechanisms to ensure safe operation:

- **Short Circuit Protection:** Prevents damage from electrical shorts.
- **High Temperature Protection:** Monitors and regulates internal temperature to prevent overheating.
- **High Voltage Protection:** Safeguards against excessive voltage input.
- **Over-charge Protection:** Stops charging once the battery reaches full capacity.
- **High Current Protection:** Manages current flow to prevent damage from excessive current.
- **Over-discharge Protection:** Prevents the battery from being fully depleted, which can extend its lifespan.

This product system has passed rechargeable battery certification for safety and efficiency: FCC / UL / UKCA / CE / RoHS / ISED.

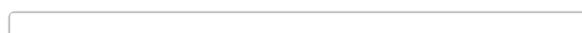


Image: Diagram illustrating the internal protection mechanisms of the battery, including short circuit, high temperature, high voltage, over-charge, high current, and over-discharge protection.

## 12. WARRANTY AND SUPPORT

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SMALLRIG products are backed by a manufacturer's warranty. For specific warranty details, including duration and coverage, please refer to the warranty card included with your product or visit the official SMALLRIG website. For technical support, troubleshooting assistance, or warranty claims, please contact SMALLRIG customer service through their official channels.

**Contact Information:** Please refer to the contact details provided on the product packaging or the official SMALLRIG website for the most up-to-date support information.