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› SmallRig V Mount Battery VB99 User Manual

SMALLRIG VB99

SmallRig V Mount Battery VB99 User Manual

Model: VB99 | Brand: SMALLRIG

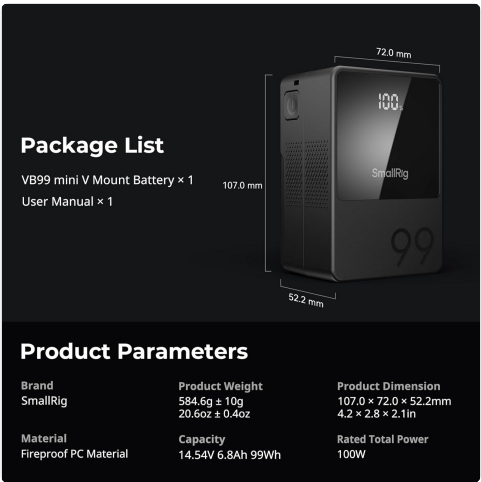
INTRODUCTION

Thank you for choosing the SmallRig V Mount Battery VB99. This compact and powerful battery is designed to provide reliable power for a wide range of professional video and photography equipment, including cameras, camcorders, monitors, and video lights. Its versatile output ports and intelligent features make it an essential tool for filmmakers and content creators. This manual provides detailed instructions for safe and effective use of your VB99 battery.

SAFETY INFORMATION

- Do not disassemble, modify, or attempt to repair the battery.
- Keep the battery away from water, fire, and extreme temperatures.
- Avoid dropping or subjecting the battery to strong impacts.
- Use only compatible chargers and cables for charging.
- Store the battery in a cool, dry place when not in use.
- Dispose of the battery according to local regulations.
- The battery is equipped with an intelligent Battery Management System (BMS) for protection against short circuit, over-temperature, over-voltage, over-current, over-charge, and over-discharge.

PACKAGE CONTENTS



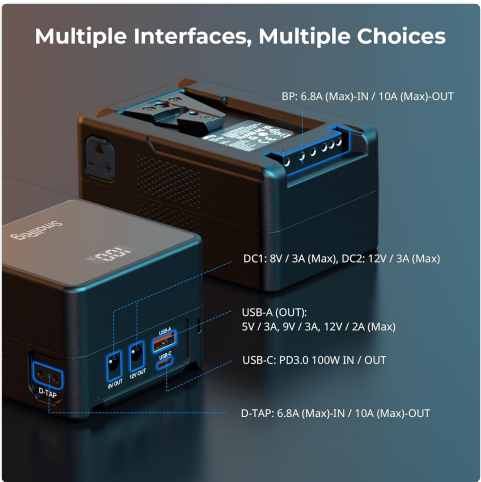
The image displays the SmallRig VB99 mini V Mount Battery alongside its user manual, indicating the items included in the product package.

- VB99 mini V Mount Battery x 1
- User Manual x 1

PRODUCT OVERVIEW



This image shows the front of the SmallRig VB99 V Mount Battery, highlighting its sleek design and the integrated OLED screen that displays battery information.



The image details the various output and input ports on the SmallRig VB99 V Mount Battery, including USB-C, USB-A, DC 8V, DC 12V, and D-TAP, illustrating its multiple connectivity options.

The SmallRig VB99 features a compact design with a durable fireproof PC material casing. It includes a bright OLED screen for real-time monitoring of battery status. The battery is equipped with a standard V-mount lock and threaded holes (1/4"-20 and 3/8"-16) for

versatile mounting options.

Ports and Controls:

- **USB-C Port:** Bi-directional PD 100W fast charging (Input/Output).
- **USB-A Port:** Output for charging various devices.
- **DC 8V Output:** For devices requiring 8V power.
- **DC 12V Output:** For devices requiring 12V power.
- **D-TAP Port:** Input/Output for professional video equipment.
- **Power Button:** Activates the OLED screen and controls power output.
- **OLED Screen:** Displays battery percentage, voltage, power output, and remaining battery life.

SETUP

Initial Charging:

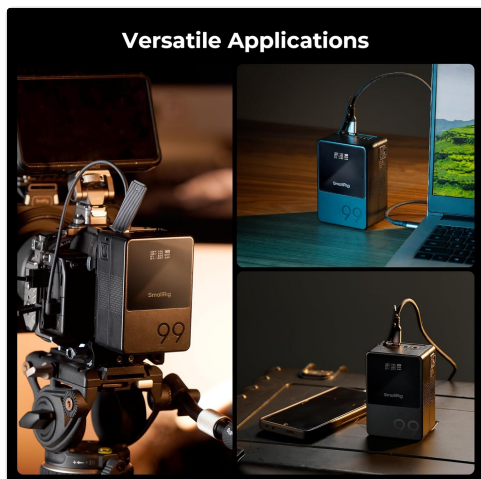


This image illustrates the SmallRig VB99 V Mount Battery being charged via its USB-C port, emphasizing its 100W PD fast-charging capability.

1. Before first use, fully charge the VB99 battery.
2. Connect a 100W (or above) PD fast charging GaN charger to the USB-C port of the battery.
3. The OLED screen will indicate the charging status and battery percentage. A full charge typically takes about 2 hours.

OPERATING INSTRUCTIONS

Connecting to Devices:



The image demonstrates the versatile applications of the SmallRig VB99 V Mount Battery, showing it connected to a camera rig, a

laptop, and a smartphone, highlighting its multi-device compatibility.

- Attach the VB99 battery to a compatible V-mount plate on your camera rig or device.
- Use appropriate cables to connect your camera, camcorder, monitor, video light, phone, tablet, or laptop to the desired output ports (USB-C, USB-A, DC 8V, DC 12V, D-TAP).
- For optimal performance, avoid using USB-A and USB-C ports simultaneously for high power output, as this may limit output to 5V.

OLED Screen Control:



This image focuses on the bright OLED screen of the SmallRig VB99 V Mount Battery, showing real-time information such as port status, voltage, power output, and remaining battery life.

- **Single Click Power Button:** Wakes up or turns off the OLED screen to display real-time updates.
- **Double Click Power Button:** Toggles between voltage and power displays on the screen.
- **Long Press (3 Seconds) Power Button:** Disables USB-C, USB-A, and DC ports to halt discharging. Single click or re-plug to restore the ports.

MAINTENANCE

- Regularly check the battery and cables for any signs of damage.
- Clean the battery surface with a soft, dry cloth. Do not use harsh chemicals or abrasive materials.
- When storing for extended periods, charge the battery to approximately 50-70% and store in a cool, dry place. Recharge every 3-6 months to maintain battery health.
- Ensure the dust cover for the ports is closed when not in use to prevent debris accumulation.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Battery not charging	Charger/cable issue, battery deeply discharged.	Ensure charger and cable are working and compatible. Try a different charger. If deeply discharged, leave connected for a longer period.
OLED screen not turning on	Battery is completely drained, or power button issue.	Charge the battery. If still unresponsive, contact support.
Device not receiving power	Ports disabled, incorrect cable, device incompatibility, or battery low.	Single click power button to enable ports. Check cable connection and compatibility. Ensure battery has sufficient charge.

Problem	Possible Cause	Solution
Battery overheating	Overload, high ambient temperature, or internal issue.	Disconnect devices immediately. Allow battery to cool down in a well-ventilated area. Reduce load if using multiple high-power devices. If problem persists, discontinue use and contact support.

SPECIFICATIONS

Feature	Detail
Model	VB99
Capacity	99Wh / 6800mAh (14.5V)
Rated Total Power	100W
Material	Fireproof PC Material
Product Dimensions	4.21 x 2.87 x 2.08 inches (107.0 x 73.0 x 53.0 mm)
Item Weight	1.21 pounds (550g)
Charging Time	2 Hours (with 100W PD fast charging GaN charger)
Input (USB-C)	100W (Max.)
Input (D-TAP / BP)	6.8A (Max.)
Output (USB-C)	5V / 3A, 9V / 3A, 12V / 3A, 15V / 3A, 20V / 5A (Max)
Output (USB-A)	5V / 3A, 9V / 3A, 12V / 2A (Max)
Output (BP/D-TAP)	5A (Max.)
Output (8V-OUT)	8V / 3A (Max.)
Output (12V-OUT)	12V / 3A (Max.)
Certifications	FCC / MSDS / UN38.3 / IEC 62133 / UL2054 / UL62368

WARRANTY & SUPPORT

SmallRig offers a worry-free 24-month warranty for the VB99 V Mount Battery. In case of any issues, SmallRig's policy is to replace, not repair. For technical support or warranty claims, please contact SmallRig customer service through their official website or the platform where you purchased the product.

For more information and product updates, visit the official SmallRig Store: [SmallRig Store](#)