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Moman Power 99 Pro

Moman Power 99 Pro Micro V Lock Battery User Manual

Model: Power 99 Pro

1. Introduction

The Moman Power 99 Pro is a compact and high-capacity V-Mount battery designed to power professional camcorders, cameras, and LED lights. It features a 99Wh capacity, multiple output ports, and an integrated OLED display for real-time operational information. This manual provides essential instructions for the safe and efficient use of your Moman Power 99 Pro battery.



Image 1.1: Moman Power 99 Pro V-Mount Battery and included USB-C cable.

2. Product Overview

2.1 Key Features

- **Compact Design:** Palm-sized with a 99Wh capacity, making it suitable for air travel (check airline regulations).
- **OLED Time-Display:** The first V-mount battery with an OLED screen providing real-time voltage, current, and estimated remaining time.
- **Versatile Charging:** Supports 65W USB-C Power Delivery (PD) fast charging, allowing charging via USB-C cable in addition to traditional D-TAP.
- **Multiple Outputs:** Equipped with D-TAP, USB-C, and USB-A ports to power various devices simultaneously.
- **High Power Output:** Delivers up to 200 Watts with a maximum continuous current rating of 15A.
- **Intelligent Battery Management System (BMS):** Features a unique balance cell algorithm for enhanced battery life, supporting up to 1000 charge cycles.



Image 2.1: The compact size of the Moman Power 99 Pro battery.

2.2 Components

The Moman Power 99 Pro battery includes the following interfaces:

- **V-Mount Interface:** For attaching to V-mount plates on cameras or accessories.
- **D-TAP Input/Output:** 14.4V-15A (Max) for charging and powering compatible devices.
- **USB-C Input/Output:** 5V/9V/12V/20V (Max 3.25A, 65W) for charging the battery or powering USB-C devices.
- **USB-A Output:** 5V-2.1A for charging USB-A compatible devices.
- **OLED Display:** Shows battery status, voltage, current, and remaining time.



Image 2.2: Overview of the Moman Power 99 Pro's input and output ports.

3. Setup

1. **Initial Charge:** Before first use, fully charge the battery using either a D-TAP charger or a 65W USB-C PD charger.

The OLED display will indicate charging status.

2. **Mounting:** Align the V-mount plate on your camera or accessory with the V-mount interface on the battery. Slide the battery down until it clicks securely into place. Ensure a firm connection.

4. Operation

4.1 Charging the Battery

The Moman Power 99 Pro can be charged via two methods:

- **Via D-TAP:** Connect a compatible V-mount battery charger to the D-TAP port on the battery.
- **Via USB-C:** Connect a 65W USB-C Power Delivery (PD) charger to the USB-C port using the included USB-C cable. This method allows for convenient charging with common smartphone/laptop chargers.



Image 4.1: Charging the Moman Power 99 Pro via USB-C.

4.2 Powering Devices

Connect your devices to the appropriate output ports:

- **D-TAP:** Use for cameras, LED lights, monitors, and other professional equipment requiring 14.4V power.
- **USB-C:** Use for laptops, tablets, and smartphones that support USB-C power input.
- **USB-A:** Use for charging smartphones and other USB-A powered accessories.



Image 4.2: Moman Power 99 Pro powering multiple devices.

4.3 OLED Display

The integrated OLED screen provides real-time information:

- **U:** Displays the current battery voltage.
- **I:** Shows the charging or discharging current.
- **T:** Indicates the estimated remaining time of charge or discharge.
- **Battery Icon:** Visually represents the remaining battery percentage.



Image 4.3: OLED display showing battery status.

5. Maintenance

- **Storage:** Store the battery in a cool, dry place away from direct sunlight and extreme temperatures. For long-term

storage, ensure the battery is charged to approximately 50-70%.

- **Cleaning:** Use a soft, dry cloth to clean the battery's exterior. Do not use liquid cleaners or solvents.
- **Cycle Life:** The battery is designed for up to 1000 charge cycles. Proper charging and discharging practices can help maximize its lifespan.



Image 5.1: Intelligent Battery Management System (BMS) for extended battery life.

6. Troubleshooting

- **Battery Not Charging:**
  - Ensure the charging cable and charger are securely connected.
  - Verify that the charger is compatible and providing sufficient power (e.g., 65W PD for USB-C).
  - Check for any visible damage to the battery or charging ports.
- **Battery Not Powering Devices:**
  - Confirm the battery has sufficient charge.
  - Ensure the device is connected to the correct output port and the cable is secure.
  - Check if the device's power requirements exceed the battery's output capabilities.
- **OLED Display Not Working or Showing Incorrect Information:**
  - If the display is blank, the battery may be fully discharged or in a protective state.
  - If issues persist, contact customer support.
- **Automatic Shutdown:** The battery features built-in protections (over-voltage, over-current, short circuit, over-discharge, over-heat, over-charge). If the battery shuts down unexpectedly, it may be due to one of these protections being triggered. Allow the battery to cool down or resolve the issue (e.g., reduce load) before attempting to use it again.

7. Specifications

Feature	Specification
Model	Power 99 Pro
Capacity	99Wh / 6875mAh
Nominal Voltage	14.4V
Product Dimensions	3.94 x 1.38 x 2.79 inches
Item Weight	10.9 ounces
D-TAP Input/Output	14.4V-15A (Max)
USB-C Input/Output	5V/9V/12V/20V (Max 3.25A, 65W)
USB-A Output	5V-2.1A
Max Output Power	200W
Cycle Life	Up to 1000 times

Manufacturer	FXLION

8. Package Contents

The Moman Power 99 Pro package includes:

- Moman Power 99 Pro V-Mount Battery x1
- 65W USB-C Charging Cable x1
- User Manual x1

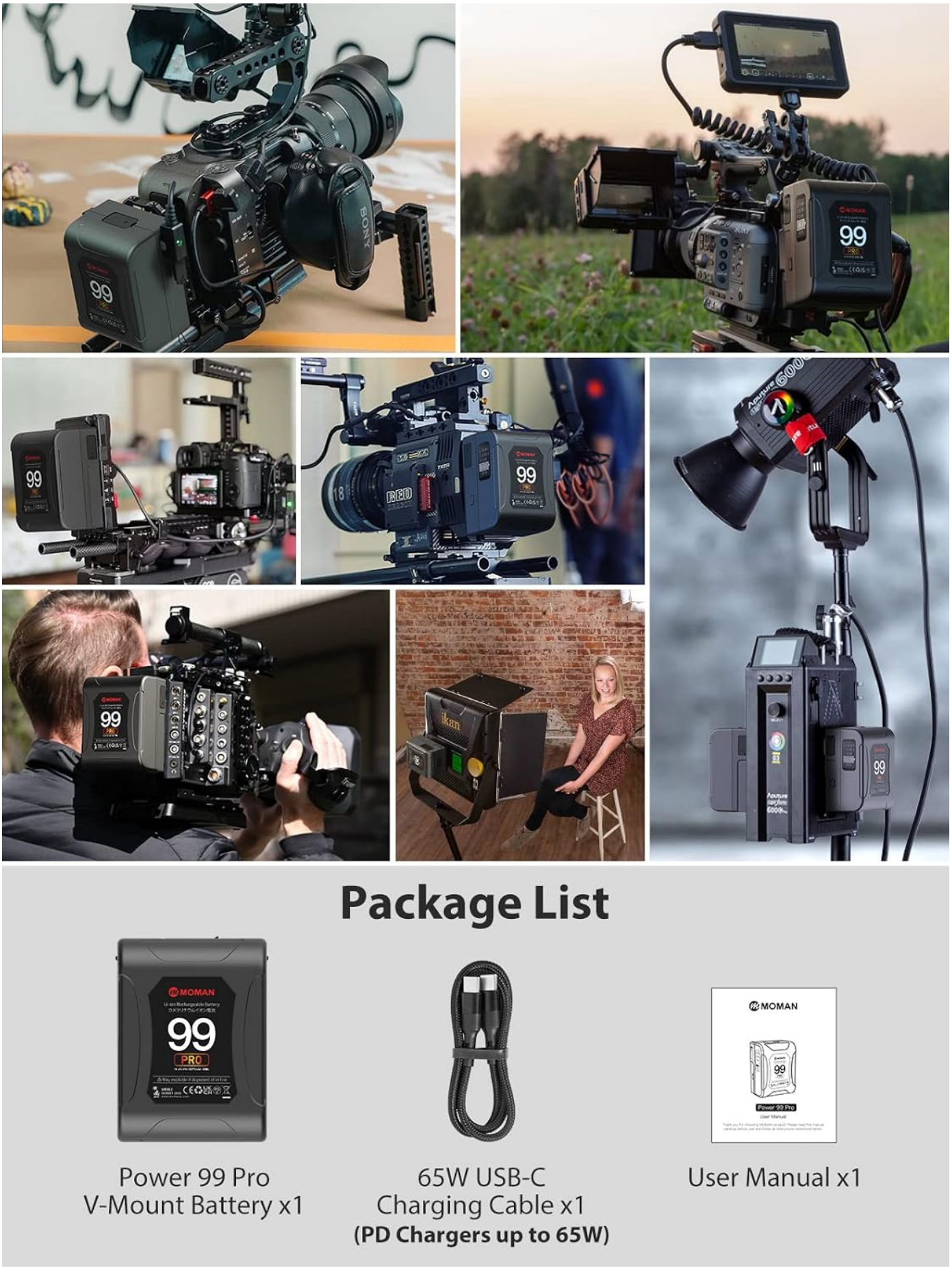


Image 8.1: Package contents of the Moman Power 99 Pro.

9. Safety Information

- Do not disassemble, crush, puncture, or short-circuit the battery.

- Avoid exposing the battery to extreme temperatures (above 60°C/140°F or below -10°C/14°F) or direct sunlight.
- Keep the battery away from water, fire, and highly flammable materials.
- Dispose of the battery according to local regulations. Do not discard with household waste.
- The 99Wh capacity is generally permitted for carry-on luggage on commercial flights, but always check with your airline's specific regulations before traveling.

10. Warranty and Support

Moman provides customer support and warranty services for the Power 99 Pro battery.

- **Warranty:** The product typically includes an 18-month replacement policy from the date of purchase. A 30-day refund option may also be available. Please retain your proof of purchase for warranty claims.
- **Technical Support:** For any technical assistance, troubleshooting, or warranty inquiries, please contact Moman's professional online support team. Refer to the product packaging or Moman's official website for contact details.

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