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> VI VINTRONS Battery for Icom IC-M37, IC-M37E, BP-296 User Manual

VI VINTRONS BP-296 (for Icom IC-M37, IC-M37E)

VI VINTRONS Battery User Manual

Model: BP-296 (Compatible with Icom IC-M37, IC-M37E)

Brand: VI VINTRONS

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your VI VINTRONS BP-296 Lithium-ion battery. This battery is designed as a replacement for Icom IC-M37 and IC-M37E radio models. Please read this manual thoroughly before first use to ensure proper operation and to prevent damage to the battery or your device.

2. PRODUCT OVERVIEW

The VI VINTRONS BP-296 is a high-quality Lithium-ion battery pack engineered to provide reliable power for your compatible Icom devices.

Key Features:

- Battery Type: Li-ion
- Voltage: 3.7V
- Capacity: 2300mAh / 8.51Wh
- Dimensions: 57.60 x 36.20 x 12.60mm
- Designed for Icom IC-M37, IC-M37E



Figure 2.1: Front view of the VI VINTRONS BP-296 battery. This image displays the battery's model number (CS-ICM371TW), part number (BP-296), voltage (3.7VDC), and capacity (2300mAh / 8.51Wh). Important caution and attention labels regarding safe handling and charging are also visible.



Figure 2.2: Back view of the VI VINTRONS BP-296 battery. This image shows the reverse side of the battery, featuring a barcode and various international symbols indicating proper disposal and handling, such as do not dispose of in fire, do not dispose of in water, and recycle.

3. SAFETY INFORMATION AND WARNINGS

Your safety is paramount. Please adhere to the following warnings and precautions to prevent injury, damage to the battery, or damage to your device.

General Cautions:

- **CAUTION! WARRANTY VOID IF LABEL IS REMOVED.**
- **DO NOT ATTEMPT TO DISASSEMBLE, OPEN OR SERVICE THE BATTERY PACK.**
- **REPLACE ONLY WITH THE BATTERY PACK DESIGNATED FOR THIS PRODUCT.**
- **DO NOT CRUSH, PUNCTURE, SHORT EXTERNAL CONTACTS OR DISPOSE OF IN FIRE OR WATER.**
- **DO NOT STORE ABOVE 60°C (140°F).**

Charging and Usage Attention:

- **ATTENTION! NEW BATTERY PACK MUST BE FULLY CHARGED BEFORE USE.**
- **TO REDUCE RISK OF FIRE OR BURNS, READ INSTRUCTIONS IN OPERATING GUIDE**

BEFORE USING THE BATTERY.

- Limited Charge Voltage: 4.2V ± 0.05V.
- Standard: GB 31241-2014.

4. SETUP AND FIRST USE

Initial Charging:

Before using your new VI VINTRONS BP-296 battery for the first time, it is crucial to fully charge it. This ensures optimal performance and battery longevity.

1. Insert the BP-296 battery into your compatible Icom IC-M37 or IC-M37E radio. Ensure it clicks securely into place.
2. Connect your radio to its official Icom charger.
3. Allow the battery to charge completely until the charger's indicator light signals a full charge. This may take several hours.
4. Disconnect the charger once charging is complete.

Note: Always use the charger specifically designed for your Icom radio to ensure proper charging and prevent damage.

5. OPERATING YOUR BATTERY

The VI VINTRONS BP-296 battery operates seamlessly with your Icom IC-M37 or IC-M37E radio once properly installed and charged.

General Operation:

1. Ensure the battery is securely installed in the radio.
2. Power on your radio as per its instruction manual.
3. Monitor the radio's battery indicator to determine remaining power.
4. Recharge the battery when the indicator shows low power to avoid interruption of use.

Battery Life:

The actual operating time of the battery will vary depending on the radio's usage, transmission power, and environmental conditions. Factors such as frequent transmissions, high volume, and extreme temperatures can reduce battery life.

6. BATTERY MAINTENANCE

Proper maintenance extends the life and performance of your battery. Following these guidelines will help maximize your battery's lifespan.

Charging Practices:

- Recharge the battery before it is completely depleted to prolong its lifespan.
- Avoid overcharging by disconnecting the charger once the battery is full.
- Charge the battery at room temperature (10°C to 40°C / 50°F to 104°F) for optimal performance.

Storage:

- If storing the battery for an extended period, charge it to approximately 50% capacity.
- Store the battery in a cool, dry place, away from direct sunlight and extreme temperatures (do not store above 60°C / 140°F).
- Recharge the battery every 3-6 months during long-term storage to prevent deep discharge.

Cleaning:

- Keep the battery contacts clean using a dry, soft cloth.
- Do not use harsh chemicals or abrasive cleaners.

7. TROUBLESHOOTING

If you encounter issues with your battery, refer to the following common problems and solutions.

Problem	Possible Cause	Solution
Battery not charging	Incorrectly seated battery; Faulty charger/cable; Dirty contacts; Battery too hot/cold.	Ensure battery is properly inserted; Try a different charger/cable; Clean battery and radio contacts; Allow battery to reach room temperature.
Short battery life	Battery not fully charged; Old battery; Extreme operating temperatures; High power consumption by radio.	Ensure full charge before use; Battery may be nearing end of life (typical Li-ion lifespan is 300-500 cycles); Operate within recommended temperature range; Reduce radio's transmit power if possible.
Battery feels hot during charging/use	Normal during charging; Overcharging; Internal fault.	Slight warmth is normal. If excessively hot, disconnect immediately and cease use. Do not use if battery is swollen or leaking.

If problems persist after attempting these solutions, please contact customer support.

8. TECHNICAL SPECIFICATIONS

Feature	Detail
Model Number	BP-296 (CS-ICM371TW)
Compatible Devices	Icom IC-M37, Icom IC-M37E
Battery Type	Lithium-ion (Li-ion)
Nominal Voltage	3.7V
Capacity	2300mAh / 8.51Wh
Dimensions (L x W x H)	57.60 x 36.20 x 12.60mm
Limited Charge Voltage	4.2V ± 0.05V
Standard	GB 31241-2014
Manufacturer	VINTRONS (ShenZhen HENZENS Technology Co., Limited)

9. WARRANTY AND CUSTOMER SUPPORT

Warranty Information:

The product image indicates: **"WARRANTY VOID IF LABEL IS REMOVED."** For specific warranty terms and duration, please refer to the product packaging or contact VINTRONS directly. Keep your proof of purchase for any warranty claims.

Customer Support:

For technical assistance, troubleshooting, or warranty inquiries, please contact the manufacturer:

Manufacturer: VINTRONS (ShenZhen HENZENS Technology Co., Limited)

Please visit the official VINTRONS website or refer to your purchase documentation for the most current contact information and support channels.