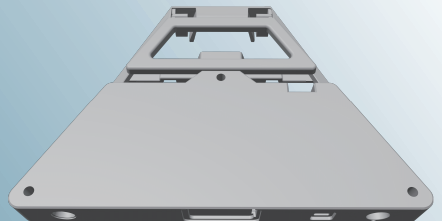




Veritas Vans

Veritas 5-Hour Battery

User Manual



Veritas 5-Hour Battery

Portable Power Bank | Product Manual | By Veritas Vans

Item	Content
Brand	Veritas Vans
Product Name	Veritas 5-Hour Battery
Model	VBAT5

I. Product Introduction

Thank you for choosing this Veritas Vans portable power bank! With a large capacity (27,500mAh / 99Wh), 100W fast charging, multiple interfaces, IP67 waterproof and dustproof rating, and solar panel charging, this product is designed for outdoor adventures, field work, business travel, and emergency backup power.

Core Advantages

- Built-in foldable stand, compatible with Starlink Mini for convenient use while charging.
- Bluetooth connectivity for real-time battery monitoring and charge/discharge tracking on your phone.
- Compatible with laptops, drones, portable monitors, phones, and more – covers all your power needs.
- Supports solar panel charging for continuous off-grid power, compatible with standard 12–36V panels.

II. Important Safety Precautions

1. Do not disassemble, puncture, crush, or expose to fire to avoid risk of injury.
2. Do not use or store the product in extreme temperature environments.
3. Although the unit is IP67 waterproof and dustproof, do not expose it to corrosive liquids.
4. Only use original or certified charging cables, chargers, and solar panels.
5. During solar charging, keep the panel away from flammable materials.
6. This product contains small parts (e.g., cables). Keep away from children.
7. If the product emits an unusual odor, overheats, swells, leaks, or shows any other abnormality, stop using it immediately. Move it away from fire sources and contact Veritas Vans support. Do not attempt to repair it yourself.

III. Product Specifications

Specification	Detail
Battery Capacity	27,500mAh / 99Wh

DC Input	12– 48V
Solar Input	12– 36V (supports MPPT fast charging)
DC Output	15– 21V (65W max) – voltage auto-negotiated
USB-C (Bidirectional)	Input / Output , PD Protocol
Supported PD Voltages	5V/3A · 9V/3A · 12V/3A · 15V/5A · 20V/5A · 28V/5A
Max USB-C Power	100W
Approx . Charge Time	~1.5 hrs via 100W PD · ~2– 3 hrs via DC · Varies by solar irradiance
Operating Temperature	14°F to 104°F (-10°C to 40°C)
Storage Temperature	32°F to 95°F (0°C to 35°C)
Weight	[INSERT WEIGHT]
Dimensions (L×W×H)	[241 x 161 x 26 mm]
Special Features	Bluetooth power monitoring , foldable stand
Protection Rating	IP67 – dustproof; protected against brief submersion up to 1m
Manufactured In	China for Veritas Vans LLC, San Luis Obispo, CA
Compliance	FCC ID: [INSERT] · CE: [INSERT] · RoHS Compliant

■ All [INSERT ...] placeholders must be completed before final publication.

IV. User Guide

Button Functions & LED Indicators

- 1.Short press:** Wake / check display.
- 2.Long press 3 sec:** Activate DC 5.5×2.1 output (15–21V, up to 65W). LED flashes green. Long press again 3 sec to deactivate.
- 3.Long press 15 sec:** Reset the screen.

LED Status Reference

LED State	Meaning
Solid green	Fully charged / standby
Flashing green	DC output active

Solid blue	Charging in progress
Flashing blue	Low battery ($\leq 20\%$)
Solid/flashing red	Fault – stop use, contact support

- Confirm exact LED behavior with firmw are team before final publication.

Port & Interface Reference

- **USB-C Port** : Bidirectional input/output, PD protocol , 100W max.
- **DC 5.5×2.1 Output (Rear)** : Outputs 15– 21V at up to 65W. Voltage auto-negotiated; no manual selection required.
- **DC 5.5×2.1 Input (Front)** : Accepts 12– 48V from chargers, adapters, or solar panels.
- **Display** : Shows battery %, voltage, current, wattage, and charge/discharge time.
- **Mounting** : M6 screws on top ; 1/4" screw on top (center) ; support bracket.

(I) Charging the Power Bank

Method	Steps	Est. Time
Recommended (PD Fast Charging)	Use a PD-com patible charger (100W max) + USB-C cable →USB-C input port.	~1.5 hrs
Alternative (DC Charging)	Use a compatible DC power supply (12 – 48V) → DC input port.	~2-3 hrs
Outdoor (Solar Charging)	<ol style="list-style-type: none"> 1. Use 12 - 36V MPPT-equipped solar panel. 2. Connect DC cable from panel output → DC input port. 3. Aim panel at sun,unobstructed. Chargingstarts automa tically 4. Monitor via Bluetooth on your phone. 	Varies by irradiance

- Pass-Through: Simultaneous charge + discharge is supported (e.g. solar while powering a device). Total output may bereduced. Avoid sustained pass-through at maximum load to preserve battery longevity.

(II) Powering External Devices

- 1.Starlink Mini: Connect the DC output port (rear) to the device using a matching DC cable.
- 2.Laptops (High-Power Devices): Connect the USB-C port using a USB-C to USB-C cable (supports 100Wmax output).
- 3.Phones / Tablets / Other USB Devices: Connect the USB-C port using a USB-C cable. The fast charging protocol will be detected automatically.

(III) Bluetooth Power Monitoring

- 1.Make sure the power bank is actively charging or discharging.
- 2.Open Bluetooth on your phone, find the device named "Veritas Battery", and complete pairing.

3. Once paired, check remaining battery percentage, voltage, current, and wattage in real time.

(IV) Foldable Stand Usage

1. Unfold the stand and adjust the support angle.

V. Maintenance

1. Before long-term storage (>1 month), charge to 50–70% and store in a dry, ventilated area (32–95°F / 0–35°C).
2. Run one full charge-discharge cycle (full charge → drain below 20% → recharge) every 3 months to maintain battery health.
3. Clean the body and ports with a dry, soft cloth. Never use chemical cleaners or allow water into the ports.
4. When storing solar cables, avoid kinking or crushing them. Keep out of direct sunlight. Inspect cable jacket regularly. Replace if damaged.

VI. Troubleshooting

Unable to Power On / Charge

1. Check if the battery is fully depleted; plug in the charger and wait at least 30 minutes before retrying.
2. Make sure the charger and cable are working properly and firmly connected.
3. Long press the button for 15 seconds to reset.

Slow Device Charging

1. Verify that your cable supports the required power (e.g., a 5A-rated cable for 100W).
2. Confirm that your device supports the PD fast charging protocol.
3. Try a different cable or charger to rule out cable degradation.

No Response / Low Power During Solar Charging

1. Check that the solar panel voltage is within the 12–36V range and that it supports MPPT.
2. Make sure the panel is unobstructed, properly angled toward the sun, and free of dust.
3. Check that the cable connection is secure and not water-damaged.

Bluetooth Won't Connect

1. Make sure the power bank is actively charging or discharging.
2. Restart Bluetooth on both the power bank and your phone; turn off nearby interfering devices.
3. Check that Bluetooth permissions are enabled on your phone.
4. Try unpairing and re-pairing the device named "Veritas Battery".

Screen Flickering / Not Lighting Up

1. Make sure the power bank is actively charging or discharging.
2. Press and hold the button for 15 seconds to reset the screen.
3. If the issue persists, contact Veritas Vans support.

VII. Warranty

Limited Warranty – 12 Months

Veritas Vans warrants this product against defects in materials and workmanship under normal use for 12 months from the date of original purchase. This warranty does not cover damage caused by accident, misuse, unauthorized modification, or failure to follow the instructions in this manual. To make a warranty claim: Contact Veritas Vans support with proof of purchase and a description of the defect. Do not return the product without prior authorization.

- Warranty terms should be reviewed by your legal team before publication.

VIII. Regulatory & Compliance

This product is designed to comply with applicable regulations in its intended markets. The following certifications apply:

- FCC: This device complies with Part 15 of the FCC Rules. FCC ID: [INSERT]
- RoHS: This product complies with the RoHS Directive (2011/65/EU).
- UN 38.3: Battery cells meet UN 38.3 transport testing requirements.

- All certification numbers are placeholders. Confirm with your compliance team before printing.

A Note from Veritas Vans

Every unit undergoes thorough quality inspection to ensure stable, long-lasting performance. If you need any help, our team is here for you:

Phone	+1 (805) 762-4633
Email	support@veritasvans.com
Website	veritasvans.com

Thanks for your purchase – enjoy your Veritas Vans power bank!

Veritas Vans LLC · San Luis Obispo, CA · veritasvans.com

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.

or

connected.

- Consult the dealer or an experienced radio/TV technician for help.

Warning: changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.