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BASUKEY BD500

BASUKEY BD500 Lithium UPS/Inverter with Inbuilt 50Ah Battery - User Manual

Model: BD500

1. INTRODUCTION

The BASUKEY BD500 Lithium UPS is a high-quality backup power solution designed to provide reliable and efficient power to your devices and appliances. With a capacity of 500VA/400W, this UPS supports small to medium-sized loads and provides uninterrupted power during outages or voltage fluctuations. It features an inbuilt 50Ah lithium battery, offering a longer lifespan and maintenance-free operation compared to traditional lead-acid batteries. The compact, wall-mountable design makes it suitable for home, office, or shop environments.

Lithium UPS BD 500, 500 VA

Compact and lightweight design for easy installation and space saving.

BASUKEY Lithium UPS



Image 1.1: The BASUKEY BD500 Lithium UPS integrated into a modern living space, showcasing its compact and sleek design.

2. SAFETY INSTRUCTIONS

Please read all safety instructions carefully before installing or operating the BASUKEY BD500 Lithium UPS. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Ensure the UPS is installed in a well-ventilated area, away from direct sunlight, heat sources, and moisture.
- Do not open the UPS casing. There are no user-serviceable parts inside. Refer all servicing to qualified service personnel.
- Do not connect non-electrical loads to the UPS output.
- Avoid placing liquids or heavy objects on top of the UPS.
- Ensure proper grounding for all connected devices.
- Keep children and pets away from the UPS during operation.
- In case of smoke, unusual odors, or abnormal operation, immediately disconnect the UPS from the AC power source and all connected devices.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- BASUKEY BD500 Lithium UPS Unit
- User Manual (this document)
- Mounting accessories (if applicable for wall mount)
- AC Input Power Cord

4. PRODUCT OVERVIEW

Familiarize yourself with the components and indicators of your BASUKEY BD500 UPS.

4.1 Front Panel



Image 4.1: Front view of the BASUKEY BD500 UPS, highlighting the LCD display and status indicators.

- **LCD Display:** Shows real-time information such as input/output voltage, battery level, load status, and operational mode.
- **Indicator Lights:** LEDs for Mains, Charging, Backup, and Overload status.

4.2 Rear Panel



Image 4.2: Rear view of the BASUKEY BD500 UPS, detailing the AC input, output sockets, and protective circuit breakers.

- **AC Input:** Connects to the main power supply.
- **AC Output Sockets:** For connecting your devices and appliances.
- **Circuit Breakers:** Provide overcurrent protection for the input and output.
- **Power ON/OFF Switch:** Main power control for the UPS.
- **Regulated Supply Switch:** Controls the regulated output.

5. INSTALLATION AND SETUP

The BASUKEY BD500 is designed for wall-mounting or vertical ground placement.

5.1 Choosing a Location

- Select a cool, dry, and well-ventilated area.
- Avoid areas with excessive dust, humidity, or corrosive substances.
- Ensure sufficient clearance around the UPS for proper airflow, especially around the cooling fan.

5.2 Wall Mounting (Optional)

If wall-mounting, ensure the wall can support the UPS's weight (approximately 13 kg). Use appropriate mounting hardware (not always included) and follow local building codes.

5.3 Connecting the UPS

1. **Connect to AC Power:** Plug the AC input power cord into a grounded wall outlet. The UPS will begin charging its internal battery.
2. **Connect Devices:** Plug your devices (e.g., computer, router, small appliances) into the AC output sockets on the rear panel of the UPS. Do not overload the UPS beyond its rated capacity (400W).

6. OPERATING INSTRUCTIONS

6.1 Powering On/Off

- **To Power On:** Press the main Power ON/OFF switch on the rear panel to the 'ON' position. The UPS will perform a self-test, and the LCD display will illuminate.
- **To Power Off:** Press the main Power ON/OFF switch to the 'OFF' position. Disconnect all connected devices before powering off completely.

6.2 Understanding the LCD Display and Indicators

The LCD display provides critical information about the UPS status:

- **Mains Indicator:** Lit when AC utility power is present.
- **Charging Indicator:** Lit when the battery is charging.
- **Backup Indicator:** Lit when the UPS is operating on battery power (during a power outage).
- **Overload Indicator:** Lit if the connected load exceeds the UPS's capacity.
- **Battery Level:** Displays the current charge level of the internal lithium battery.
- **Input/Output Voltage:** Shows the real-time AC input and output voltage.

6.3 Quick Charging Feature

The BASUKEY BD500 features quick charging, allowing the UPS to fully charge its internal battery within 5-6 hours. This ensures readiness for the next power outage with minimal downtime.



Image 6.1: Highlighting the quick charging capability and other key features like lightweight design, overcharge protection, and LCD display.

7. MAINTENANCE

The BASUKEY BD500 Lithium UPS is designed for zero maintenance, thanks to its inbuilt lithium battery technology. This eliminates the need for distilled water refills, acid handling, or concerns about hazardous fume generation.

- **Cleaning:** Periodically wipe the exterior of the UPS with a soft, dry cloth to remove dust. Do not use liquid cleaners or solvents.
- **Ventilation:** Ensure that the ventilation openings are not blocked to prevent overheating.
- **Battery Life:** The inbuilt lithium battery is designed for a lifespan of more than 10 years under normal operating conditions.

8. TROUBLESHOOTING

Refer to the following table for common issues and their solutions:

Problem	Possible Cause	Solution
UPS does not turn on	No AC input power; Battery fully discharged; Power switch off.	Check AC power connection; Allow UPS to charge for a few hours; Ensure power switch is ON.
UPS beeps continuously / Overload indicator lit	Connected load exceeds UPS capacity.	Disconnect non-essential devices to reduce the load.

Problem	Possible Cause	Solution
Short backup time	Battery not fully charged; Battery nearing end of life.	Allow UPS to charge fully; If issue persists, contact support.
No output power in UPS mode	Battery discharged; UPS malfunction.	Check battery level; If fully charged and no output, contact support.

9. TECHNICAL SPECIFICATIONS

Detailed specifications for the BASUKEY BD500 Lithium UPS.

BD500 Technical Specifications

Model Name	BD500
Capacity in VA/Watts	500/400
Battery Position	Inbuilt Lithium Battery Pack
Battery DC Volts	12.8
Mounting Facility	Wall Mounting /Ground Vertical Mounting
AC Input Voltage Range	125V-280V \pm 10V
Mains Mode	
Output Voltage & Waveform	Same as Input
UPS Mode	
Output Voltage	220V \pm 10V
Output Voltage Frequency	50Hz \pm 0.1Hz
Output Voltage Wave form	Sinewave
Change Over/Transfer Time	Automatic / <15ms
Battery Charging Current	5A \pm 2A
Battery Charging HVC /LVC	14.5VDC / 11.1 VDC
Weight in Kg	13kg \pm 650gram
Dimensions in mm L X B X H	280x170x390

Image 9.1: Overview of the BASUKEY BD500's technical specifications.

Feature	Specification
Model Name	BD500
Capacity (VA/Watts)	500VA / 400W
DC Voltage	12.8V
Battery Type	Inbuilt Lithium Battery Pack (Life04 Cylindrical Cells)
Battery Capacity	50 Ah (384 Wh)
Mounting Facility	Wall Mounting / Ground Vertical Mounting
AC Input Voltage Range	125V-280V \pm 10V
Output Voltage (UPS Mode)	220V \pm 10V
Output Frequency (UPS Mode)	50Hz \pm 0.1Hz
Output Waveform	Sinewave
Change Over/Transfer Time	Automatic / <15ms
Battery Charging Current	5A \pm 2A
Battery Charging HVC/LVC	14.5VDC / 11.1 VDC
Continuous Discharge Current	35 Amps
Product Dimensions (LxWxH)	28 x 17 x 39 cm
Item Weight	13 kg
Material	Metal



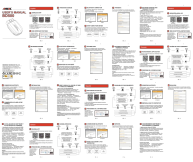



10. WARRANTY AND SUPPORT

The BASUKEY BD500 Lithium UPS comes with a **3-year warranty** from the date of purchase. This warranty covers manufacturing defects and ensures reliable operation under normal use conditions.

For technical support, warranty claims, or service inquiries, please contact BASUKEY customer service through the retailer where the product was purchased or visit the official BASUKEY website for contact information.

Please retain your purchase receipt as proof of purchase for warranty validation.



	<p>Basukey BD1000 Lithium UPS: Recent Installation Showcase</p> <p>Explore a collection of recent installations for the Basukey BD1000 Lithium UPS. See how this compact and reliable power backup solution is integrated into various home and business environments.</p>
	<p>ANCEL BD500 User Manual - Bluetooth OBD2 Diagnostic Tool</p> <p>Comprehensive user manual for the ANCEL BD500 Bluetooth OBD2 diagnostic tool. Learn how to download the app, connect via Bluetooth, perform vehicle diagnostics, and update software.</p>
	<p>ANCEL BD500 User Manual and Software Guide</p> <p>Comprehensive guide for the ANCEL BD500, covering app download, device connection, OBD interface, software updates, and product specifications. Includes troubleshooting and warranty information.</p>
	<p>Airbus A220 Aircraft Characteristics Publication (ACP) - Technical Data</p> <p>Explore the Airbus A220 Aircraft Characteristics Publication (ACP), detailing key aircraft specifications and listing effective technical data modules. Essential information for aviation professionals.</p>
	<p>Diagnostický nástroj ANCEL BD500 Bluetooth OBD2 - Uživatelská příručka</p> <p>Podrobná uživatelská příručka pro diagnostický nástroj ANCEL BD500 Bluetooth OBD2. Naučte se stahovat aplikaci, připojit zařízení, používat jeho funkce, aktualizovat software a zobrazit specifikace produktu.</p>
	<p>ANCEL BD500 Bluetooth OBD2 Diagnostic Tool User Manual & Guide</p> <p>Comprehensive user guide for the ANCEL BD500 Bluetooth OBD2 diagnostic tool. Learn how to download the app, connect the device, perform diagnostics, update software, and view product specifications.</p>