

APB1532 Operating Manual

Version 01

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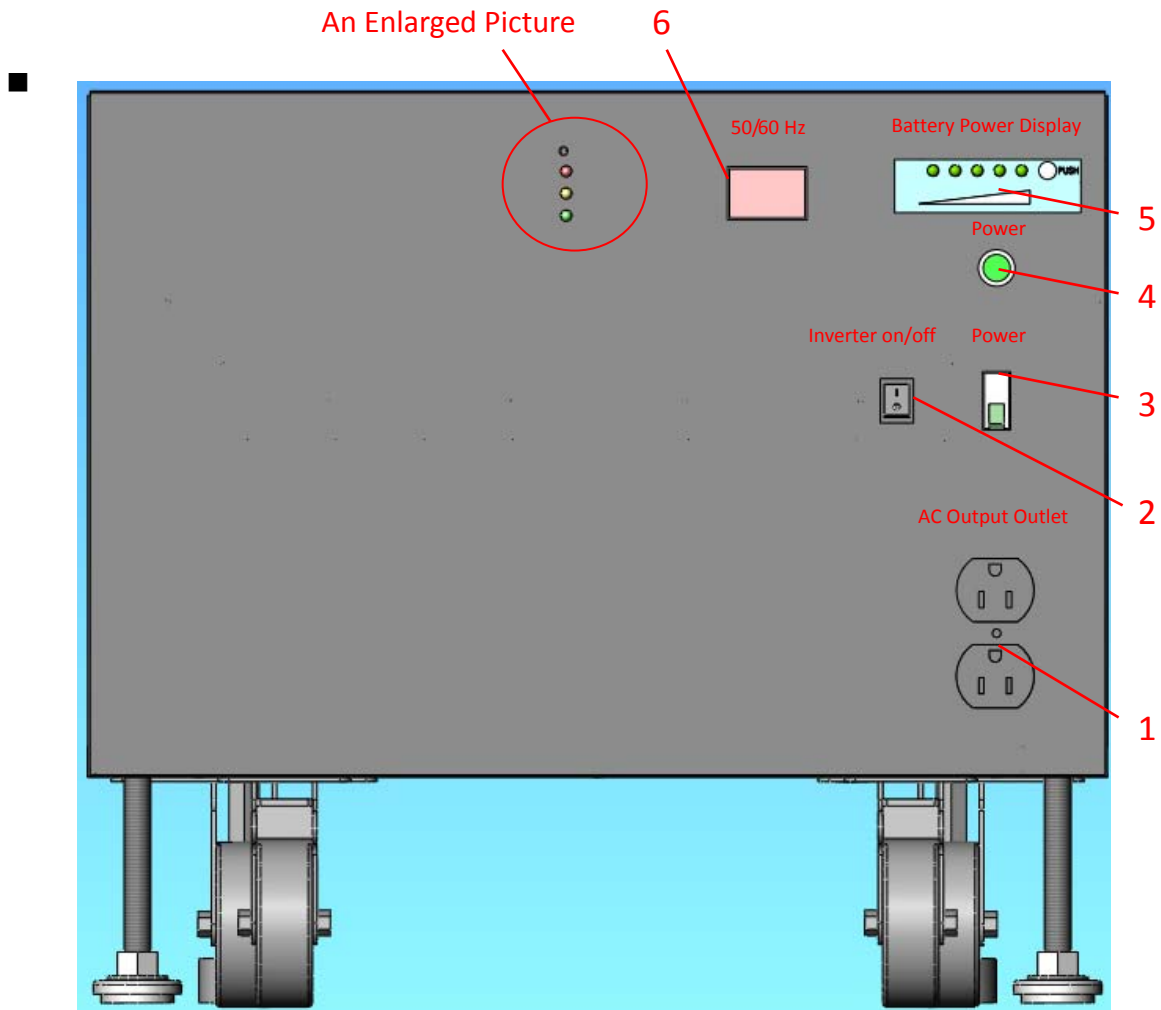
I. Introduction

- Models APB1015/APB1524/APB1532 are power bank systems with sine wave output. They contain high power lithium batteries and are controlled by microcontroller units (MCUs).
- Models APB1015/APB1524/APB1532 can work under 1000W/1500W/1500W systems. Moreover, these models have the ability to operate on 115% nominal power for 3 minutes, and even 200% nominal power at peak current.
- Application: Good for both inductive and capacitive loading. Works with computer, communication and entertainment equipment, motor and power tools, industrial control equipment etcetera.

II. Specification

	APB1015 (1.5KW)	APB1524 (2.4KW)	APB1532(3.2KW)
Voltage/Frequency	100V/50Hz (Factory setting)		
Output Protection	Overload, short circuit, over temperature, electrical leakage		
Efficiency of inverter	89%	89%	89%
Consumption when power off	Battery consumption is lower than 1mA when inverter is off.		
Battery protection	Over current, short circuit, low voltage (prevents over discharge), over voltage (prevents over charge)		

III. Front Panel



1. AC Output Outlet: Max. 15A
2. Inverter On/Off:
 - I. Turn off for long storage
 - II. To prevent from error in Battery Power Display, please make sure the AC power and the loading is removed before reset.
3. AC Power
4. AC Output Indicator: On/Off
5. Battery Power Display

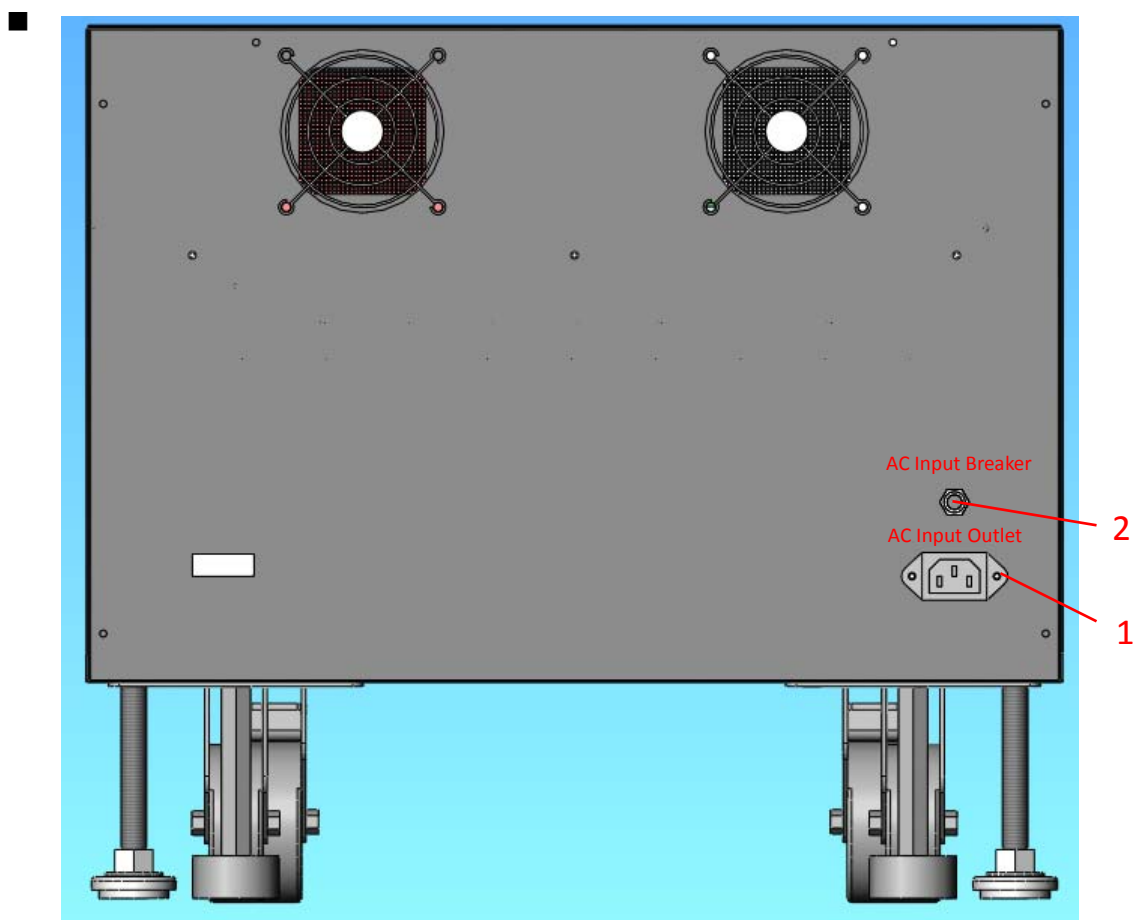


1 LED	2 LED	3 LED	4 LED	5 LED
5%~20%	20%~40%	40%~60%	60%~80%	80%~100%

Please refer to the “Trouble shooting” for error.

6. Frequency Indicator (50Hz/60Hz)
7. Switch of Frequency: To set the output and working mode. (page. 6)
8. Status Indicator
 - I. On LED: Inverter On
 - II. Bat Low LED: Battery with low voltage
 - III. Saving LED: Saving mode

IV. Back Panel



1. AC Input Outlet
2. AC Input Breaker

V. Operating Manual

- Principle: The AC power bypasses the power bank, supplying the loading directly. When there is AC power failure, the battery (DC) alternatively supplies the loading via the inverter.
- Models APB1010/APB1524/APB1532 include two working modes to switch between: the UPS mode and energy saving mode.
 - ◆ UPS mode: Inverter is always on. This mode shortens the time between switching from AC to DC.
 - ◆ Energy saving mode: Inverter is in sleep mode at AC power. This mode saves more energy but takes more time to switch from AC to DC.
- Setup: Voltage/Frequency – Work mode
 1. Turn off the inverter and remove the loading.
 2. Setup process: Hold down the "Setting" button while simultaneously pushing the "Power" button until the AC power indicator flashes an orange light and the system issues a beep.
 3. Check the following table with your request.
 - ◆ Required Specification: go to STEP 5.
 - ◆ Others: go to STEP 4 to modify

Output voltage		100Vac	110Vac	115Vac	120Vac
Frequency					
50Hz	Status	●	●	●	●
	Battery	○	○	●	●
	Load	○	●	○	●
60Hz	Status	★	★	★	★
	Battery	○	○	●	●
	Load	○	●	○	●

● Lighting(Green) ○ Dark ★ Flash(Green)

4. Every time the "Setting" button is pushed the Status Indicator will change. Modify the voltage and frequency accordingly.
5. After setup, hold down the "Setting" button for 3~5 seconds until the system issues a beep. Then begin setting up the work mode.

6. Check the following table with your request.

- ◆ Required Specification: go to STEP 8.
- ◆ Others: go to STEP 7 to modify.

Energy saving mode	Status	★
	Battery	★
	Load	●
UPS Mode	Status	★
	Battery	★
	Load	○

● Light(Green) ○ Dark ★ Flash(Green)

7. Every time the “Setting” button is pushed the Status Indicator will change.

Modify the work mode accordingly.

8. After setup, hold down the “Setting” button for 3~5 seconds until the system issues a beep.

- Setup is done. The system will automatically store the setup information and start supplying power.

VI. Protection

- Over temperature protection (OTP): Triggered when the temperature of inverter is too high. Reset the inverter to release.
- Abnormal AC output protection: Triggered when the output of inverter is too high or too low. Reset the inverter to release.
- Short circuit of AC output protection: Triggered when the output of inverter is short circuit or sharp loading. Reset the inverter to release.
- Abnormal battery voltage: Triggered when the battery voltage is too high or too low. Automatically release while the battery turns to normal voltage.
- Over loading protection: Triggered when the loading is over the specification. Reset the inverter to release.

VII. Warning and Caution

- Keep this product in a dry place away from moisture.
- Keep this product away from high temperatures and heat sources. Extreme heat may cause the product to explode.

- The brand and battery model type must be consistent. Do not mix new batteries with old ones.
- Reserve at least 15 cm of empty space around the product to ensure smooth air flow.
- Do not place any objects on or around this product.
- This is a high voltage product. Do not attempt to alter or disassemble. If there is a problem, only an approved qualified professional should fix this product. Please contact your dealer for further assistance.
- Please allow 5-10 seconds between switching the inverter on and off to prevent product malfunction.

VIII. Maintain

- Fully charge this product before first time usage or before long term storage.
- Do a charge and discharge cycle every month to extend the battery life.
- Have regular inspections of this product done by a qualified professional.

IX. Troubleshooting

Failure	Cause	Suggestion
No AC Output	Abnormal Input	Check if input protection protrudes. Remove the abnormal input and reset the inverter.
	OTP protection	Check the vents and environmental temperature. Cool down the environmental temperature and reset the inverter.
	Over load protection	Make sure the loading and peak current is within specifications and reset the inverter.
	Short circuit protection	Make sure the loading isn't over the nominal loading or short circuit and reset the inverter.
Short discharge time	Battery problem	Send back to agency to inspect.