

Amphasys Battery Pack User Guide



Caution: This battery contains electric power and should be used, stored, and disposed of in an appropriate manner. It may cause damage and/or injury if the battery is not used properly. Please read this user guide before using the battery.

Battery Identifications

Power Status: The LED lights when the battery is turned on.

On/Off: Use this switch to turn on or off the battery.

Power Level: These 4 LEDs display the remaining battery life when the Check button, located on the right side, is pressed.

1 LED: Less than 25%; 2 LEDs: 25 ~ 60%

3 LEDs: 60 ~ 90%; 4 LEDs: 90 ~100%

→ **Remark:** When only 1 LED is flashing while the battery is powering Ampha Z30 and Z32, the battery pack must be exchanged with a charged one or plugged to the battery charger in order to avoid loss of data.

5 V USB: 5 V DC power, up to 2.1 A

Output: Power output port. Output voltage is controlled by the special output cable. By plugging in different output cables, the battery will output different voltages of DC power.

Charge: Battery charging port. Input charging voltage: 12.6 V.

Charging the Battery: This battery can be charged from any 110 V or 220 V AC power source with the provided AC charger.

Please, do not use other chargers, as they might damage the battery! Monitor the charging process and react to potential problems that might occur. If you cannot monitor the battery charging, please make sure to leave it on an isolated, fireproof area and away from other flammable materials.

While the battery is charging, the LEDs on the battery will stay lit if the battery has been charged to its corresponded power level. LED will keep flashing when the power level is still within its range. When the battery is fully charged, all 4 LEDs will be **off**.

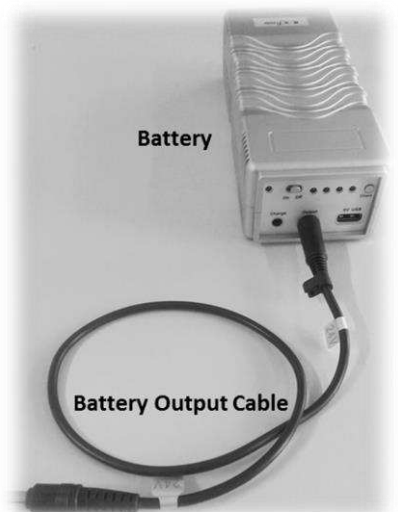
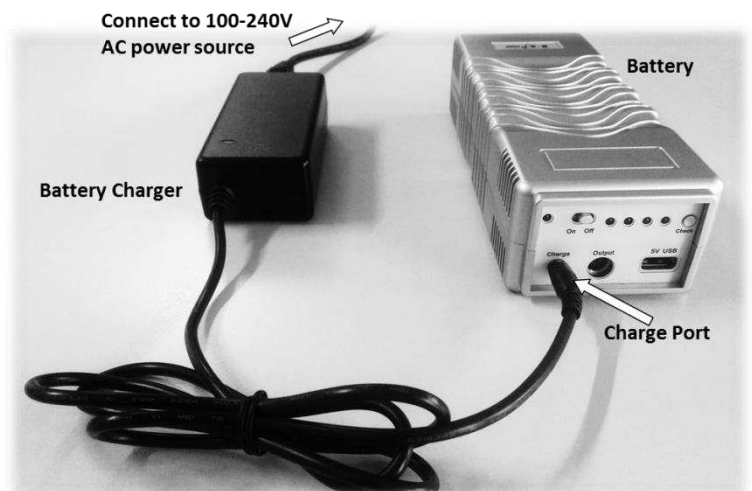
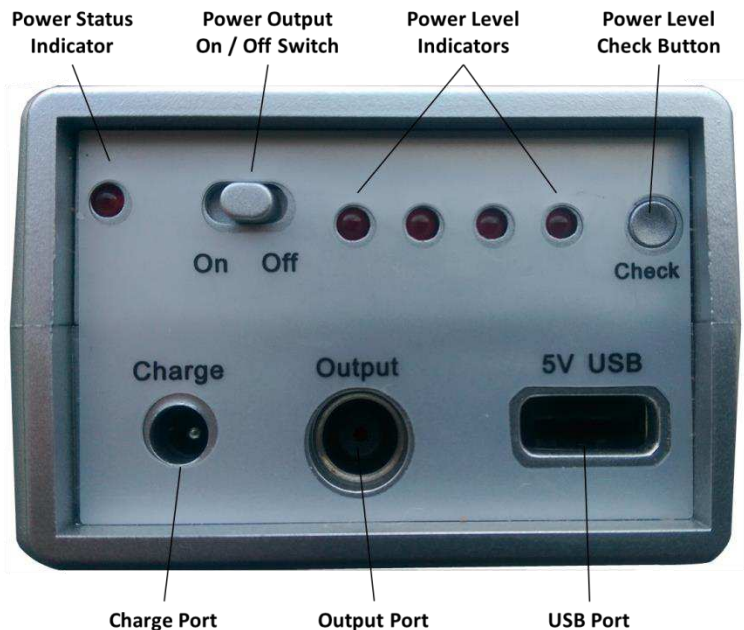
The bundled AC charger has dual-color LED lights to indicate the battery charging status:

Red color = battery charging; green color = battery fully charged

The battery will use very small charging current at the last stage of charging. Therefore, it may take an extra 1 – 2 hours to charge the last 5% capacity. It will be OK if you stop charging the battery while the 4th LED is still flashing. The battery is almost fully charged after 5 hours of charging even if the 4th LED is flashing.

Output cable: This battery output voltage is controlled by the special output cable. By plugging a different output cable into the output port, the battery will output different voltages of output power.

The external battery output voltage should be set at the same or close to the device power adapter output voltage or the device power jack input voltage, which may be different from the device's internal battery voltage.



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Polarity: This battery's output polarity is positive. For a round shape connector, its inside is positive and outside is ground (negative).



Battery Specifications

Outputs	Regular Port: Multi Output Voltages, controlled by different special output cables. Maximum 3 A ~ 5 A (60 W max.) USB Port: 5 V / 2.1 A max.
Capacity	99.9 Wh
Charge Voltage / Current	12.6 V / 3 A max.
Size / Weight	186 x 75 x 45 mm (7.5 x 3 x 1.8 inches) / 0.8 kg (1.8 lb)
Charging Temperature	0 ~ 45°C
Working / Storage Temperature	Working: -20 ~ 60°C / Storage: -20 ~ 40°C
Life Cycle	> 500 times
PCB Safety Protection Function *	Cell balancing; Over-charge; Over-discharge; Over-current protection; Temperature protection

* The battery will shut itself down if a protection function is activated. If this happens, please use the AC charger to re-activate the battery after identifying and solving the problem.

Safety Guide

Charging: Please only use the provided charger to charge this battery. Chargers with incorrect voltage and current may damage the battery.

Storage & Handling: Please turn off the battery if not in use. Leaving the battery "on" will cause the battery to self-discharge quickly, and it may build up static charge inside the battery cells and damage the battery.

DO NOT leave a fully exhausted battery on a shelf. Charge it to at least 50% or more if you do not need to use it for a long time. DO NOT leave the battery dormant for long periods of time. We recommend using the battery at least once a month. If the battery has not been used for a long period of time, please perform the new battery exercise. Fully discharge and then fully charge the battery **at least once every 3 months**. Always store the battery in a cool and dry place between 0°C (32°F) and 20°C (70°F), and away from flammable materials.

Do not disassemble or modify the battery.

Do not let the battery get wet.

Do not expose the battery to heat above 60°C (140°F)

Do not place the battery in microwave ovens, high-pressure containers or on induction cookware.

Do not place the battery in or near fire, or in direct sunlight. Heating the battery can damage the safety circuitry, which can cause additional heating, rupture or ignition of the battery.

Do not insert anything except the battery charger into the charging port.

Immediately stop using or charging the battery if the battery emits unusual smell or noise, feels too hot, changes color or shape, or appears abnormal in any other way. In the event the battery leaks and the fluid gets into one's eye, do not rub the eye. Rinse well with water and immediately seek medical care. If left untreated, the fluid of the battery could cause damage to the eye. Always dispose of used batteries in accordance with local regulations.

Warranty

This product is guaranteed against manufacturing defects for one (1) year from the original date of purchase. Amphasys's sole obligation in the event of such defects during this period is to repair or replace the defective part or product with a comparable part or product at Amphasys's sole discretion. Except for such replacement, the sale, or other handling of this product is without warranty, condition or other liability even though the defect or loss is caused by negligence or other fault. Damage resulting from use, accident, or normal wear and tear is not covered by this or any warranty. Amphasys assumes no liability for any accident, injury, death, loss, or other claim related to or resulting from the use of this product. In no event shall Amphasys be liable for incidental or consequential damages relating to or resulting from the use of this product or any of its parts.