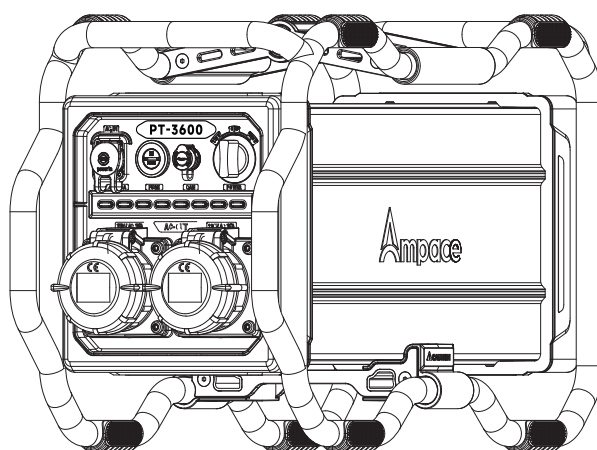




Prime Tank 3600

Portable Power Station

PT3600 User Manual



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Date: 13/08/2026

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Notice

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DO NOT DISASSEMBLE OR ALTER THIS PRODUCT.

For safety, please read this product manual thoroughly before use and follow the instructions strictly for correct use.

About this document

Purpose

This document describes the application scenarios, operations and troubleshooting of the PT3600 portable energy storage system (hereinafter referred to as "Product"). Before using and operating, ensure that you are familiar with product features, functions, and safety precautions as provided in this document.

Target audience

This document is intended for:

- Sales engineers
- Technical support engineers
- Service engineers
- End users

Symbol conventions

This manual contains important safety instructions, which are highlighted with the following symbols, to remind users, installers and maintainer for safe operation.

Symbol	Description
 DANGER	Indicates a hazardous with a high level of risk which, if not avoided, will result in serious damage to products or properties, bodily injury or death.
 WARNING	Indicates a hazardous with a medium level of risk which, if not avoided, could result in death or serious injury.
 CAUTION	Indicates a hazardous with a low level of risk which, if not avoided, could result in minor or moderate injury.
NOTICE	Indicates a potentially hazardous situation which, if not avoided, could result in equipment damage, data loss, performance deterioration, or unanticipated results.

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1 Safety information

Statement

Prior to transporting, storing, operating, using, and/or maintaining the product, read this document, strictly follow the instructions provided herein, and follow all the safety instructions on the Product and in this document. In this document, "Product" refers to the products, software, components, spare parts, and/or services related to this document; "the Company" refers to the manufacturer (producer), seller, and/or service provider of the Product; "you" refers to the entity that transports, stores, installs, operates, uses, and/or maintains the Product.

The **Danger, Warning, Caution, and Notice** statements described in this document do not cover all the safety precautions. You also need to comply with relevant international, national, or regional standards and industry practices. **The Company shall not be liable for any consequences that may arise due to violations of safety requirements or safety standards concerning the design, production, and usage of the Product.**

The Product shall be used in an environment that meets the design specifications. Otherwise, the Product may be faulty, malfunctioning, or damaged, which is not covered under the warranty. The Company shall not be liable for any property loss, personal injury, or even death caused thereby.

Comply with applicable laws, regulations, standards, and specifications during transportation, storage, installation, operation, use, and maintenance.

The Company shall not be liable for any of the following circumstances or their consequences:

- The Product is damaged due to force majeure such as earthquakes, floods, volcanic eruptions, debris flows, lightning strikes, fires, wars, armed conflicts, typhoons, hurricanes, tornadoes, and other extreme weather conditions.
- The Product is operated beyond the conditions specified in this document.
- The Product is used in environments that do not comply with international, national, or regional standards.
- The Product is used by unqualified personnel.
- You fail to follow the operation instructions and safety precautions on the product and in the document.
- You or a third party authorized by you cause the Product damage during transportation.
- The Product is damaged due to storage conditions that do not meet the requirements specified in the product document.
- You fail to prepare materials and tools that comply with local laws, regulations, and related standards.
- The Product is damaged due to your or a third party's negligence, intentional breach, gross negligence, or improper operations, or other reasons not related to the Company.

The document content may be periodically updated due to product version upgrades or other reasons. Unless otherwise specified, the information in the document does not replace the safety precautions on the product label. All descriptions in the document are provided solely as usage guidelines.

SAFETY INSTRUCTIONS



Read all safety warnings and instructions before using this product. Failure to follow these instructions may result in electric shock, fire, explosion, and/or serious injury. Save all warnings and instructions for future reference.

General Warnings

- This product contains high-energy lithium-ion batteries. Improper use can result in severe injury or property damage.
- Do not open, disassemble, modify, or attempt to repair the product. All servicing must be performed by qualified service personnel using identical replacement parts.
- Use the product only within the specified operating limits (e.g., temperature, power output) provided in this manual.

Personal Safety

- If the product is damaged or misused, harmful vapors may escape and irritate the respiratory tract. Immediately move to an area with fresh air and seek medical attention if symptoms occur.
- Leaking battery fluid can cause skin irritation or chemical burns. In case of skin contact, immediately wash with plenty of water. If fluid contacts the eyes, rinse thoroughly with water and seek immediate medical attention.
- Operation must be supervised by an experienced user, especially when used by or near children, inexperienced persons, or persons with reduced physical or mental capabilities.

Product Handling & Environment

- Do not use or store the product in locations where flammable gases, vapors, or combustible dusts are present.
- Do not store the product in temperatures exceeding 65°C (149°F). Keep away from heat sources such as direct sunlight, heaters, or open flames.
- Ensure adequate ventilation. Do not operate in a sealed container.
- Never lift or move the product using cranes, slings, or other lifting equipment. Use the carry handle only.
- Place the product on a stable, level, and non-slip surface to prevent it from tipping, falling, or being damaged.
- Route all connected cables carefully to prevent tripping hazards, crushing, or damage. Do not place strain on cables.

Inspection & Damage

- Before each use, inspect the product, power cable, and accessories for damage. Check that the LED light functions correctly. Do not operate a damaged or defective product.
- If the product is dropped or suffers an impact, inspect it thoroughly for damage. Do not use if external damage is found (except for minor cosmetic damage to the frame or carry handle). Contact Ampace service immediately.

Electrical Connections & Operation

- Charge the product only with the provided charging cable or an identical replacement sourced directly from Ampace.
- Do not use if the power cable is damaged. Protect the cable from being crushed, kinked, or damaged. The mains disconnect point must always be easily accessible.
- Output Ports:
 - ◇ Do not short-circuit the outlets.
 - ◇ Do not touch electrical contacts with any object.
 - ◇ Keep protective caps on unused ports closed.

- **Connected Loads:**
 - ◇ Ensure loads are switched OFF before connecting to or disconnecting from the product.
 - ◇ Switch OFF all connected loads after operation.
 - ◇ Do not connect loads that feed power back into the product (e.g., solar panels).
 - ◇ Do not operate life-sustaining medical equipment with this product.
 - ◇ Do not connect multiple devices to the PT3600 using power strips.
 - ◇ When connecting multiple devices, install an RCD (Residual Current Device) on each sub-circuit and position it as close as possible to the PT3600.
- **Cabling Requirements**
 - ◇ Keep the total length of the cabling as short as possible.
 - ◇ Ensure the line resistance between the PT3600 and connected devices does not exceed 1.5 Ω .
 - ◇ Maximum allowable cable lengths:
 - * 1.5 mm² cross-section: ≤ 60 m (including supply and return conductors)
 - * 2.5 mm² cross-section: ≤ 100 m (including supply and return conductors)
 - ◇ Regularly verify the return impedance.
- **Functional Safety Precautions:**
 - ◇ Do not power devices that rely on a protective conductor connection for functional safety.
- **Class I Equipment Grounding**
 - ◇ For Class I power devices, ensure the product casing is effectively grounded and connect an RCD.
- Always comply with local regulations for low-voltage electrical systems.

Emergency Procedures

- Use water to extinguish the flames. If safe to do so, fully submerge the burning product in water. Immediately call the fire department and inform them that lithium-ion batteries are involved.
- Do not use the product as a step stool, workbench, or for any purpose other than its intended function.

Maintenance & Cleaning

- Never submerge the housing in water or mud.
- Do not clean with water jets or pressure washers.
- Prevent contact with chemicals, fuels, and lubricants.

2 Product introduction

The PT3600 is a high-performance, portable power station featuring a robust lithium-ion battery system. It provides a standard 230V or 110V AC output, making it ideal for reliably powering a wide range of high-wattage devices typically used with 230V or 110V industrial sockets (hereafter referred to as "loads").

Built to the IP65 protection rating, the PT3600 is dust-tight and protected against water jets, ensuring safe and dependable operation in both indoor and outdoor environments.

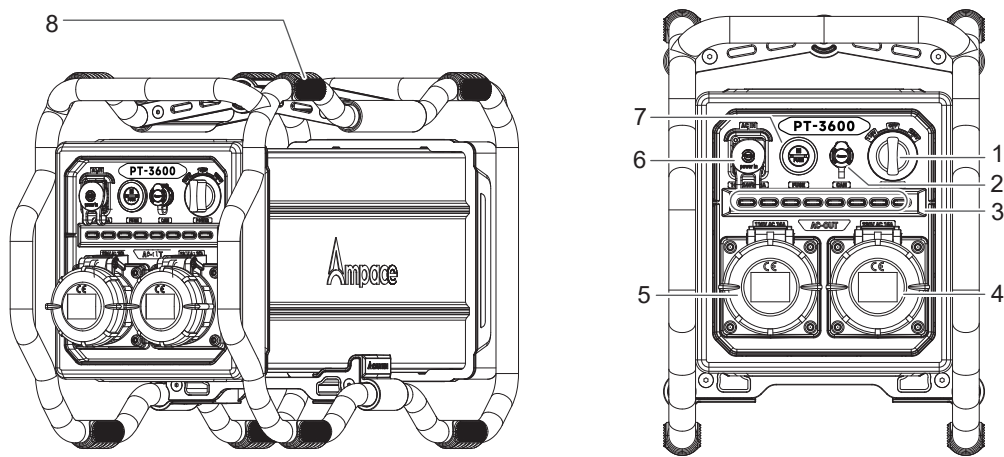


Table 2-1 Components and ports

No.	Name	Description
1	Power	Power on/off the power station, and switch between 110V (Eco mode) and 230V output
2	CAN	CAN Communication Port
3	LED lights	LED Indicator Lights
4	AC2 OUT	CEE 3 Pin, 230V 16A
5	AC1 OUT	CEE 3 Pin, 110V 16A
6	AC IN	Charging port
7	Fuse	Glass fuse
8	Handle	Lifting the power station

3 Transportation and storage

3.1 Transportation

This product has cleared UN38.3 (Section 38.3 of the seventh Revised Edition of the Recommendations on the Transport of Dangerous Goods: Manual of Tests and Criteria) and SN/T 0370.2-2009 (Part 2: Performance Test of the Rules for the Inspection of packaging for Exporting Dangerous Goods). This product is classified as class 9 dangerous goods, and shall be transported in accordance with the following:

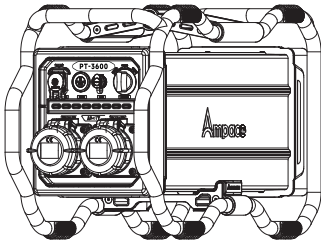
- Use van-type vehicle including container and metallic van-type vehicle. Platform vehicle and convertible where the cargo is not enclosed within the body of the vehicle are prohibited.
- In order to protect the product from moving, falling or crashing, bandages and bubble bags shall be adopted during transportation. Specifically, bandages apply to both long and short distance transports, and at least the last 1-2 rows at vehicle rear shall be bandaged. Short distance transport does not need bubble bags. But both bubble bags and bandages (at least the vehicle rear) should be used for long distance transport. If there isn't enough space for bubble bags, bandage application inside the whole car is an option.
- Vehicle in the middle of unloading should berth near dock. Vehicles waiting to be unloaded should keep a safe distance of 6m from warehouse. The vehicle prohibits debris stacking and should stay away from other vehicles.
- Prohibit mixing up with explosive, inflammable or toxic objects.
- Prohibit piling up with other objects.
- Maintain original packaging and keep labels complete and recognizable.
- Carriers should be equipped with extinguishers designed specifically for lithium battery, which are used together with fire protection water and sand.
- A damaged box or rattles during transport may indicate rough handling. Describe the damages on the delivery receipt before signing. If an obvious damage such as package hole or serious impact is found, please contact your distributor.

3.2 Storage

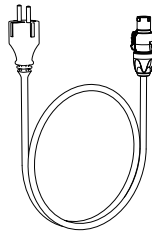
- Before storage, ensure that the product is turned off and all the cables and loads are removed.
- For a long service life, store the product at temperatures of between 0°C and 25°C in an atmosphere with low humidity.
- For long-term storage, it is recommended to charge the product to 80–90% prior to storage to prevent deep discharge. Recharge the product periodically according to the following temperature:
 - ◇ 45°C to 60°C: Recharge at least once every 1 month.
 - ◇ 25°C to 45°C: Recharge at least once every 3 months.
 - ◇ 0°C to 25°C: Recharge at least once every 12 month

4 Scope of delivery

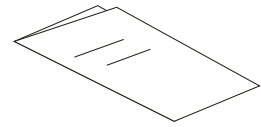
Check the completeness of the delivery upon receipt. The following parts must be included:



PT3600 *1



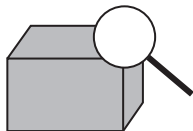
cable *1



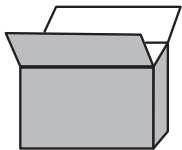
Documentation *1

5 Initial start-up

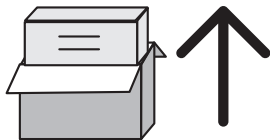
Before using the device for the first time, carry out the following steps once:



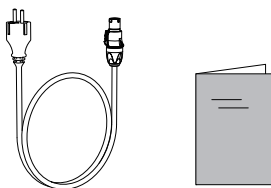
Check the package for outer damage.



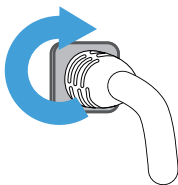
Open the package at the top side.



Remove the PT3600 by the handle, together with the side bolster.



Check for completeness and damage.



To connect the charging cable:

1. Insert the charging cable connector into the PT3600 socket.
2. Rotate the connector clockwise until an audible click confirms it is securely locked in place.



To disconnect the charging cable:

1. Lift the charging plug release button.
2. Rotate the plug counterclockwise to unlock it.
3. Gently pull the cable out of the socket.

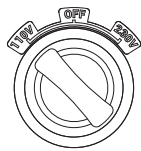


Connect the mains cable with the PT3600 and the mains supply. Wait until all LEDs [5] are permanently lit in green.

6 General operation

6.1 Operation

[110V]



[110V ON]

- 110V output receptacle are active
- 230V output receptacle is inactive
- Eco mode Input receptacle is active
- Bypass mode is inactive

[230V]



[230V ON]

- 230V output receptacle are active
- 110V output receptacle is inactive
- Fast charging Input receptacle is active
- Bypass mode is active

[OFF]



[OFF / Charging]

- Fast charging Input receptacle is active
- All Output receptacles are inactive
- Bypass mode is inactive

6.2 Operating States

[Charging]

0% to 100% charging in 2 hours (230V AC)



[Discharging]

100% to 0% discharging



6.3 Maintain

[Fuse]



- If charging fails, open this port to check whether the input fuse has blown.
- Before replacing the fuse, switch the device to [OFF] mode.

[CAN]



- Connect to a computer for firmware upgrades.
- Built-in Auto Generator Start and Shutdown (AGS) functionality

6.4 Warning and Faults

LED status	Cause	Troubleshooting
[Warning] Flashing green (1Hz)	Overcurrent Fault (Charging/Discharging)	Immediately disconnect the load or charging source, the product should automatically recover. If it does not, turn off the product, wait for 1 minute, and then restart it.
[Warning] Flashing red (1Hz)	Temperature Fault	Turn off the product and place the product in an environment between 0°C and 35°C for at least 30 minutes, until the fault indicators disappear.
[Faults] Steady red	Permanent Failure	A hardware malfunction has been detected. Contact the Ampace service center.

7 Further safety guidance

This product has been designed and tested to meet the stringent safety requirements of internationally recognized standards (see the Declaration of Conformity). This ensures the product itself is safe for the user under normal operating conditions.

Important Note on Connected Equipment:

These international standards do not cover the safety of the entire electrical system created when devices (loads) are connected to the product. By powering external devices, you are creating a low-voltage electrical installation. The requirements for personal protection in such installations can vary by country and region.

The following information provides general guidance. It is the user's sole responsibility to identify, understand, and comply with all applicable local electrical codes and safety regulations.

7.1 Charge mode

When charging using the grid power or a Class I power source, this product is classified as a Class I / double-insulated electrical device. It must be connected to the protective earth of the power grid to ensure proper grounding protection.

7.2 Discharge mode

- When the charging cable is not connected and the device is discharging only, the product is classified as having a Class II structure / double insulation.
- When the charging cable is connected to the grid or another Class I power source during discharge, the device is in a Class I / double-insulated state and relies on power source protective grounding for safety protection. The protective grounding standard shall comply with the requirements of IEC 60364-5-54.

7.3 Connecting Loads

To ensure safe and optimal operation, please adhere to the following guidelines when connecting devices (loads) to the product.

Connection of multiple loads

It is not recommended to power multiple loads simultaneously. Do not use a multi-socket adapter. For optimal safety and performance, power a single load at a time.

Output circuit design

The product's two AC outputs are independently switched between 110V and 230V via the main switch and are not in an output state simultaneously. The live conductors of the two outputs are not internally connected, and the protective earth (PE) terminals of both outputs are insulated from all other internal components.

Recommended safety measures

For enhanced personal protection, the following measures are strongly advised:

- Use a Residual Current Device (RCD): Install an RCD in the power cord of the connected load. For maximum effectiveness, the RCD should be placed as close to the product's output as possible. This ensures the RCD will trip quickly in the event of an insulation fault in the load or its cable.
- Optimize Cable Layout: Use a clearly arranged wiring system with the shortest cable lengths practical. To ensure the electronic output fuse trips rapidly (within <200 ms), the total resistance of the cable between the product and the load should not exceed 1.5 Ω.

Regular Inspection of Connected Equipment

When electrical devices are frequently used with a protective separation power source (like this product in discharge mode), the likelihood of undetected insulation faults can increase. Therefore, it is essential to have all loads used with this product regularly inspected by a qualified electrician.

7.4 Protective measures at the output

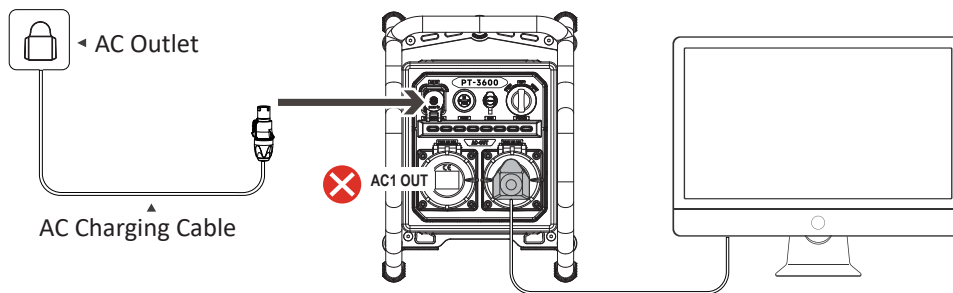
- Overload
- Frequency
- RMS-value of the voltage
- Peak voltage
- DC offset

7.5 Protective measures at the input

The charging input is protected against overload by a melting fuse.

8 Emergency power supply

This product features Emergency Power Supply (EPS) capability. When you connect the grid power to the AC Input port using an AC charging cable, you can supply electrical devices through the AC2 Output sockets. In this scenario, the source of AC power will be the grid rather than this product itself. If there is an abrupt power outage, this product can be switched to EPS mode in just 20 milliseconds.



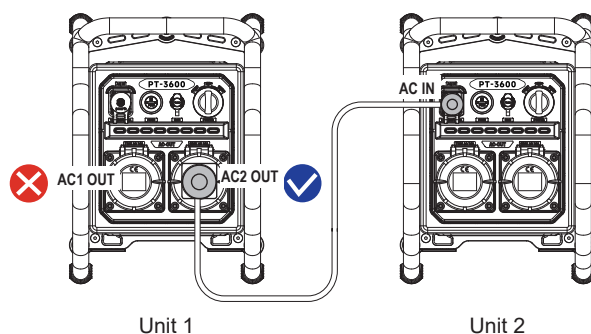
NOTICE

EPS function does not support 0ms switching. Do not connect the product to any device that requires 0ms uninterrupted power supply, such as data servers and workstations. Test and confirm the device compatibility before using the EPS function. It is recommended that you only charge one device at a time and ensure that the used power is less than 2990W to avoid overload protection. Ampace takes no responsibilities for any device failures or data losses caused by failures to follow instructions.

9 Capacity expansion

To extend the runtime for your load, you can connect two PT3600 units in parallel (as illustrated) to expand the capacity (maximum of two units supported).

- Primary/Secondary Mode: Unit 1 serves as the primary power source.
- Automatic Failover: Upon depletion of Unit 1, the system seamlessly switches to Unit 2 within 20ms without interrupting the load.
- Hot-Swap Maintenance: Remove the depleted Unit 1 for charging. A fully charged unit can be hot-swapped into the system at any time to restore expansion mode.



NOTICE

- * Power Output Port: AC2 OUT only.
- * Adapter Cable Requirement: Please purchase the expansion adapter cable from Ampace brand channels or authorized resellers.

10 Maintenance

In normal operation, the product works maintenance and servicing-free. With the exception of the input fuse and the frame, the product does not contain any components or assemblies that the user needs to replace or service.

! DANGER

- * Wear personal protective equipment and use dedicated insulated tools to avoid electric shocks or short circuits.
- * Do not smoke or have an open flame around batteries
- * Do not use a wet cloth to clean parts that may conduct electricity.
- * Do not use water or any solvent to clean the system.

! WARNING

- * Do not maintain batteries with power on, such as torque verification and tightening screws. Otherwise, the system may be damaged or electric shocks may occur.
- * After discharging, charge the system in time to avoid damage due to over-discharge.
- * Before moving or rewiring, power off and wait for five minutes until the battery system is fully discharged. Before maintaining, check that no hazardous voltages remain in the DC bus or components to be maintained by using a multimeter.



CAUTION

- * Do not connect two or more cables to the positive or negative power port in parallel.
- * Stay away from the system when preparing cables to prevent cable scraps from entering the battery system. Cable scraps may cause sparks and result in personal injury and system damage.

10.1 Replacing the charging fuse

If the fuse for the charging input has blown (tripped), this may indicate an underlying internal fault.

To replace the charging fuse, do the following:

Step 1. Disconnect all cables from the product, including the charging cable and any connected loads.

Step 2. Use a suitable screwdriver to carefully open the fuse holder.

Step 3. Replace the fuse with a new one of the exact same type and rating.

Step 4. Use the screwdriver to securely close the fuse holder.



WARNING

- * If the new fuse blows again immediately, stop use and contact customer service. This indicates a persistent internal fault that requires professional repair.

Always replace the fuse with a fuse of the same type:

Nominal voltage: 250 V

Characteristic: slow-acting (S)

Nominal current: 15 A

- Breaking capacity: 200A
- Model: 6.35x32mm

10.2 Replacing the frame

The frame of the PT3600 can be replaced by the user in case of damage. Appropriate spare parts and detailed instructions can be obtained from Ampace.

10.3 Cleaning and care

- Before cleaning, turn off the PT3600 and remove connected cables and/or loads. Close the socket covers.
- Check the PT3600 for damage.
- Wet cleaning of the PT3600 is permitted. However, when doing this, you must ensure that no water jets are used; in particular, the use of pressure washers is not permitted.
- The use of solvents or other strongly reactive chemicals is not permitted.

10.4 Firmware upgrade

The firmware of the battery system can be upgraded. For details, contact Ampace technical support.

11 Declaration

11.1 Declaration of conformity



It is herewith confirmed that the product of the manufacturer Ampace complies with the requirements of the applicable EU directives, including all relevant amendments. This declaration ceases to be effective as soon as modifications of electromechanical relevance are made to the device.

11.2 WEEE declaration / Disposal



The product is marked with the symbol of a crossed-out dustbin. This means that, according to the applicable EU directives with regard to end-of-life electric and electronic devices as well as batteries and rechargeable batteries and their transposition into national law, the product must not be disposed of with household waste.

At the end of its useful life, the used product should be discharged as far as possible and handed in at authorised collection points. The regulations on environmentally sound disposal must be observed.

The integrated battery modules must only be removed from the product by a qualified specialist.

In case of improper storage and disposal, the chemical ingredients of batteries can damage health and environment and cause fires and explosions.

11.3 Output and shelf life parameters (EU Regulation 2023/1542 on batteries and end-of-life batteries)

This document contains output and shelf life data as well as an explanation of the conditions that were used for their derivation, as stipulated in EU Regulation 2023/1542 on batteries and end-of-life batteries, Article 10.

The actual use, storage and environmental conditions have an influence on the service life. The service life prognosis does not entail any warranty claims.

Parameters of the electro-chemical performance in connection with the shelf life of the rechargeable battery

Nominal capacity	Drop in capacity	Output	Drop in output	Internal resistanc
4Ah	<20%	3.6 kW continuous output, up to 18 kW peak output (1 second)	No drop in output	0 Ω

Increase of the internal resistance	Efficiency energy circuit	Efficiency loss energy circuit	Expected service life	Expected service life
<50%	>80%	<10%	1000 cycles	depending on use

Explanation of the conditions for derivation of the above parameters:

8A charge current (at room temperature 25 °C), 16A discharge current (at room temperature 25 °C), and 2.5V cell discharge depth are used to estimate the cyclic service life and drop in capacity.

12 Technical parameters

Output specifications (discharging status)	
AC1 output voltage	110V AC, 50Hz
Rated output power	1,760W (16A)
150% overload	2,640 W (24 A) up to 700 seconds
200% overload	3,520 W (32A) up to 120 seconds
250% overload	4,400 W (40 A) up to 20 seconds
300% overload	5,280 W (48A) up to 12 seconds
416% overload	7,150 W (65 A) up to 3 seconds
Peak power	9,570 W
Discharging temperature range	-20°C - 60°C
AC2 Output specifications (discharging status)	
AC2 output voltage	230V AC, 50Hz
Rated output power	3680W (16A)
150% overload	5,400 W (24 A) up to 700 seconds
200% overload	7,200 W (32 A) up to 120 seconds
250% overload	9,000 W (40 A) up to 20 seconds
300% overload	10,800 W (48 A) up to 12 seconds
416% overload	15,000 W (65 A) up to 3 seconds
Peak power	20,000 W
Discharging temperature range	-20°C - 60°C
Input specifications (charging status)	
Input voltage	100-240V, 50-60Hz
Rated charging power (when the power switch is turned to 230V or OFF)	800~1920W, 8A max, 230V fast charging: full charging within 2 hours (at room temperature 25 °C) 110V fast charging: full charging within 4.5 hours (at room temperature 25 °C)
Charging power in Eco mode (when the power switch is turned to 110V)	90% charging supported, 250~600W, 2.5A max 230V Eco charging: 90% charging within 4 hours (at room temperature 25 °C) 110V Eco charging: 90% charging within 8 hours (at room temperature 25 °C)
Charging temperature range	-10°C - 45°C
Bypass mode	
AC2 output	100-240V, 50-60Hz 13A max

Items	Specifications
Rated capacity	1998Wh
Dimensions	515×333×232mm
Weight	22 kg
Optimal operating temperature	15°C - 35°C
Storage conditions	Temperature: -30 °C ~ -20 °C, 45 °C~ 60 °C, within 7 days; -20 °C ~ + 45 °C, within 6 months; Humidity: 5%-95% RH
EPS (AC2 output)	20ms
Human machine interface	APP+WEB (optional)
Noise	≤25dB
Ingress protection	IP65
Protection class	Class II construction/ double insulated
Altitude	≤5000m
Communication	CAN
Outgoing capacity	25~30% SOC
Cell certification	UL1642, IEC62133, IEC62619
Safety certification	IEC62368, IEC62133
EMC standard	IEC61000-6-4/ IEC61000-6-2
UN transportation test standard	UN38.3
Compliance marks	RoHS, REACH, CE

Battery Life Management Program

Ampace introduces the Battery Life Management Program to help optimize battery longevity. When the product is not required for immediate use, it is recommended to charge it in ECO mode. This practice is projected to extend battery life by 5% to 15%.

13 App download

Connect wirelessly to your Prime Tank 3600 via the app to monitor device status and access additional features.

Search for "Ampace Cloud" in your app store, or scan the QR code below to download and install the App.





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