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STORM 3600W PORTABLE POWER STATION WITH 3840WH – GREY

SKU: PW3600PROGY

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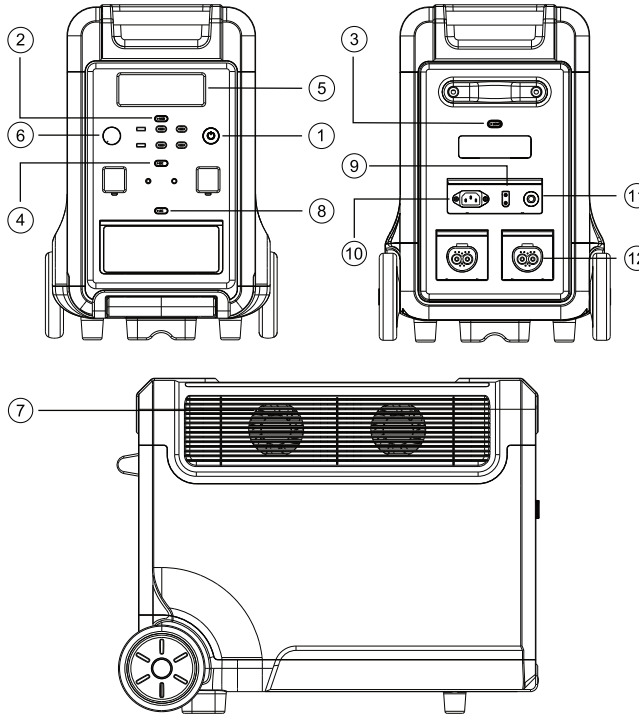
Product Introduction

The Powerology STORM 3600W Portable Power Station is a high-capacity 3840Wh energy solution engineered for dominance in off-grid living, outdoor adventures, and emergency backup. With a powerful 3600W AC output, multiple USB-A and USB-C fast-charging ports, DC outputs, and versatile recharging options including AC, solar, and car, it delivers reliable power for laptops, refrigerators, kettles, drones, and other essential appliances. Its rugged wheeled design, intelligent LCD display, and built-in UPS functionality make the STORM a true mobile power hub built for performance and resilience.

Structural Diagram

The STORM features a front control panel with the power button, output toggles, and LCD display, while the rear panel houses the AC input, XT90 solar input, DC outputs, and AC sockets. Side ventilation grilles ensure efficient thermal management during high-load operation.





1. Power Button
2. USB Output Button
3. Light Indicator
4. DC Output Button
5. LCD Display
6. LED Light
7. Ventilation Grille / Cooling Fan
8. AC Output Button
9. XT90 Solar Input Port
10. AC Input Port
11. DC Output Port
12. AC Output Sockets

Package Contents

1. Portable Power Station
2. AC Charging Cable

3. User Manual
4. Cigarette Lighter Output Port to XT90 Plug Cable (sold separately)
5. MC4 to XT90 Plug Charging Cable (sold separately)

Safety Instructions

Warning:

1. Don't put device into water.
2. Don't heat the device or keep near fire source.
3. Don't disassemble device.
4. Don't over-hit the product or throw from high level.
5. Stop using the device immediately and contact customer service if it becomes swollen, abnormally hot, leaks, is deformed, or emits smoke or unusual odour. Do not puncture, crush, or incinerate the unit.
6. Keep the device out of the reach of children and pets; supervise any use around children.
7. Charge the device only with the supplied AC charging cable and a compatible adapter. Inspect cables before each use and do not use any cable or adapter that is damaged, frayed, or shows signs of wear.
8. Always unplug by gripping the plug body, not by pulling on the cable.
9. Do not immerse the device in water or expose it to rain, snow, or high humidity. Unless explicitly rated for wet exposure, keep the unit dry during outdoor use.
10. Do not subject the device to strong impact, drops, or rough handling.
11. When using solar input, do not look directly into focused or concentrated sunlight reflected from panels, and ensure the connected array stays within the rated XT90 solar input voltage and current window.

Attention:

1. Please follow the manuals.
2. In case the device over-heating. Please leave at least 5cm for the air vent.

3. The device will automatically shut off when the electricity of device is not enough or the discharging device watt is more than the rated output, or in high temperature condition.
4. Please don't charge and discharge at same time.
5. When the device is stored for a long time without use, the battery level may decrease over time. Please recharge the device every 6 months to help preserve battery life.
6. When loading high-watt products, if the instantaneous power exceeds the surge rating, the device will automatically protect itself and turn off the output.
7. Please don't use this device under extreme conditions, eg: flammable or corrosive condition.
8. In case of any malfunctions or warranty claims please contact the customer service.
9. Operate and store the device within the manufacturer's specified temperature ranges; exposure outside these ranges may reduce performance, battery life, or safety.
10. The device incorporates over-current, over-voltage, over-temperature, and short-circuit protection; if a protection event triggers, remove the load, allow the unit to cool, and restart before resuming use.
11. Pass-through charging (using outputs while the unit is being recharged) is supported under normal household loads; for safety and battery longevity, avoid simultaneous maximum-rate charging and sustained near-maximum discharging.
12. When the device is stored without use, recharge it to approximately 60–80% every three months to help preserve battery life (supersedes any previous interval).

Operating Instructions

1. Charging the Power Station

Connect the supplied AC Charging Cable to the AC input port on the rear of the unit and plug the other end into a wall outlet.

To recharge via solar, connect a compatible MC4-to-XT90 cable between a compatible solar panel and the XT90 input port. Ensure

the panel's open-circuit voltage and current are within the rated solar input window.

To recharge from a vehicle, use a compatible Cigarette Lighter to XT90 cable from the car's 12V socket to the XT90 input.

Monitor charging progress on the LCD display, which shows input watts and battery percentage.

2. Using AC Outputs

Press the Power Button to turn on the unit.

Press the AC Output Button to activate the AC sockets.

Plug appliances directly into the regional AC sockets and confirm the AC icon is shown on the display.

Total AC load must not exceed 3600W to avoid triggering overload protection.

3. Using USB Outputs

Press the USB Output Button to enable the USB ports.

Connect USB-A devices to either of the two QC 3.0 USB-A ports for fast charging.

Use any of the three PD-20W USB-C ports for phones, tablets, and small accessories.

Use the single PD-100W USB-C port for laptops and high-power USB-C devices.

4. Using DC Outputs

Press the DC Output Button to enable the DC ports.

Connect 12V devices to the DC barrel outputs, cigarette lighter port, or XT60 port as required.

Ensure each port's current rating is respected: DC 12V/3A, Cigarette 12V/10A, XT60 12V/25A.

5. UPS Function

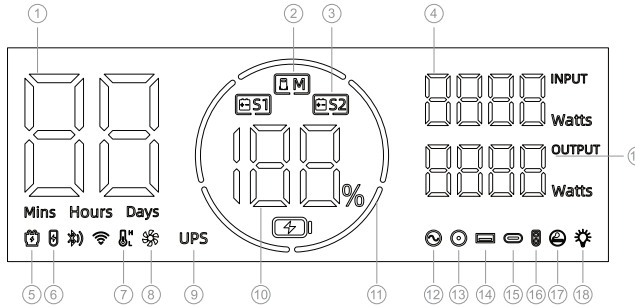
Keep the STORM plugged into AC mains and connect critical loads to its AC sockets.

During normal operation, mains power passes through to the load while the internal battery stays charged. Pass-through charging is supported under normal household loads; avoid combining maximum-rate charging with sustained near-maximum discharging.

If mains power fails, the unit instantly switches to battery power via the bidirectional inverter, keeping the load running without interruption.

LCD Display Indicators

The LCD display provides real-time status of the power station including remaining runtime, battery percentage, input and output wattage, and active port indicators. Status icons show temperature, fan, UPS mode, wireless connectivity, and active output types.



1. Remaining Time Display

2. Main Battery Indicator (M)

3. Extra Battery Indicators (S1 / S2)

4. Input Watts

5. Battery Status Icon

6. Low Battery Icon

7. Temperature Indicator (High / Low)

8. Fan Indicator

9. UPS Mode Indicator

10. Battery Percentage

11. Charging Ring

12. AC Output Icon

13. DC Output Icon

14. USB-A Output Icon

15. USB-C Output Icon

16. XT60 Output Icon

17. Cigarette Lighter Output Icon

18. LED Light Indicator

19. Output Watts

AC Port Types

The STORM is available in multiple regional AC socket configurations to match the destination market, each delivering the appropriate voltage and frequency standard for that region.

USB Output Ports

The USB output panel includes two USB-A ports supporting QC 3.0 fast charging, three USB-C ports with 20W Power Delivery, and one USB-C port with 100W Power Delivery for laptops and high-power devices.

USB-A×2	TYPE-C×3	TYPE-C×1
QC 3.0	PD-20W	PD-100W

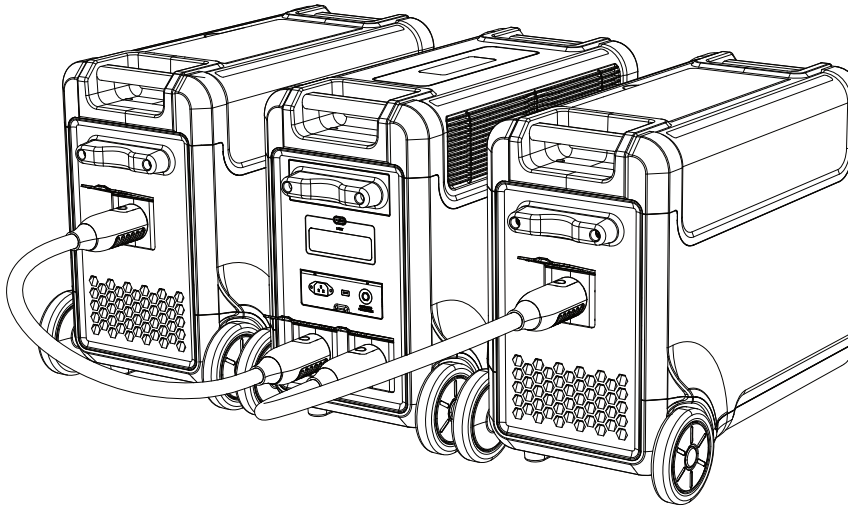
DC Output Ports

The DC output section provides two 12V/3A DC barrel outputs, one 12V/10A cigarette lighter port, and one 12V/25A XT60 port for compatible 12V appliances and accessories.

DC output ×2	Cigare port ×1	XT60 ×1
12V/3A	12V/10A	12V/25A

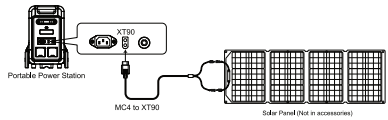
Solar Charging (Single Panel)

Connect a compatible solar panel to the STORM's XT90 input using the MC4-to-XT90 charging cable. The solar panel is sold separately and provides clean off-grid recharging when AC power is unavailable.



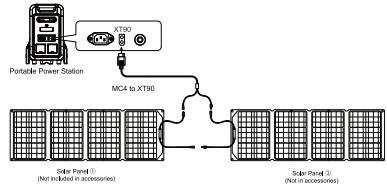
Solar Charging (Dual Panels)

For faster solar recharging, two compatible solar panels can be connected in parallel through the MC4-to-XT90 splitter cable into the XT90 input port. Solar panels are not included in accessories.



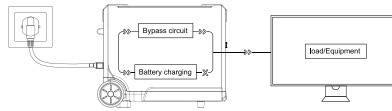
Car Charging

Use the optional Car Charging Cable from the cigarette lighter socket of a vehicle to the XT90 input on the STORM to recharge while driving or on the road.



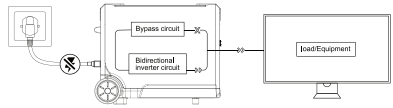
UPS Mode (Normal Operation)

In UPS mode with stable mains power, the STORM passes AC directly through its bypass circuit to the connected load while simultaneously charging its internal battery for backup readiness.



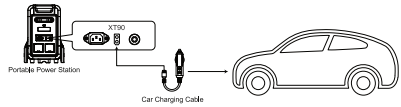
UPS Mode (Power Outage)

When mains power is lost, the STORM automatically switches from the bypass circuit to its bidirectional inverter circuit, supplying battery power to the connected load without interruption.



Battery Expansion

The STORM supports modular battery expansion by linking additional compatible battery units, increasing total capacity for extended runtime in demanding off-grid applications.



Outdoor Use

The STORM is built for outdoor dominance, pairing with solar panels for sustainable off-grid power during camping, expeditions, and emergency situations.




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STORM
BUILT FOR DOMINANCE
3600W

Specifications

Model	PW3600PRO
Battery Capacity	3840Wh
AC Output	3600W
Dimensions	550×321×464 mm
USB-A Output	USB-A × 2 (QC 3.0)
USB-C Output	TYPE-C × 3 (PD-20W), TYPE-C × 1 (PD-100W)
DC Output	DC Output × 2 (12V/3A)
Cigarette Lighter Port	12V/10A
XT60 Output	12V/25A
AC Output (CH)	220V 50Hz
AC Output (UK)	220V~240V 50Hz/60Hz
AC Output (EU)	220V~240V 50Hz/60Hz
AC Output (KR)	220V 60Hz

Battery Runtime

Devices	Device Watt	Discharging Time
Laptop	60W	≈ 54 hrs
Desk Lamp	15W	≈ 217 hrs
Speaker	30W	≈ 108 hrs
Drone	90W	≈ 36 hrs
Electric Kettle	1500W	≈ 2.1 hrs
Smartphone	15W	≈ 217 hrs
Electric Fan	50W	≈ 65 hrs
Mini Refrigerator	100W	≈ 32 hrs
TV	120W	≈ 27 hrs
Electric Car (charging)	1800W	≈ 1.8 hrs
Heated Blanket	150W	≈ 21 hrs
Microwave Oven	1000W	≈ 3.2 hrs

Compatible Devices

1. Laptops
2. Desk Lamps and LED Lighting
3. Speakers and Audio Equipment
4. Drones
5. Electric Kettles
6. Smartphones and Tablets

7. Electric Fans
8. Refrigerators
9. TVs
10. Electric Vehicles (charging)
11. Heated Blankets
12. Microwave Ovens

Maintenance Tips

1. Storage

Store the power station in a cool, dry place away from direct sunlight and moisture.

If not used for an extended period, recharge the battery to around 60–80% every three months to maintain battery health.

2. Cleaning

Power off and unplug the unit before cleaning.

Wipe the housing with a soft, dry cloth; do not use solvents, abrasives, or water.

Keep ventilation grilles free of dust and obstructions to ensure proper cooling.

3. Care During Use

Operate within the recommended temperature range to preserve battery performance.

Avoid continuously running loads close to the 3600W maximum to reduce thermal stress.

Do not block the fan vents during operation.

Frequently Asked Questions

1. Can I use the STORM while it is charging?

Yes. The STORM supports pass-through charging, allowing you to power devices through its AC, USB, and DC outputs while it is being recharged from AC, solar, or car input under normal loads.

2. How long does it take to fully recharge the power station?

Recharge time depends on the input source. AC wall charging is the fastest method, while solar and car charging times vary with panel wattage and vehicle output.

3. Which solar panels are compatible?

Any compatible solar panel with MC4 connectors can be used through a compatible MC4-to-XT90 cable (sold separately). Solar panels are not included in the package. Ensure the panel's open-circuit voltage and current remain within the rated solar input window.

4. What happens if I exceed 3600W of AC load?

The STORM's overload protection will automatically shut down the AC output. Disconnect some devices, then power-cycle the AC output to resume operation.

5. Can the STORM be used as a UPS?

Yes. When connected to AC mains, the STORM operates in UPS mode and will instantly switch to battery power if mains power is lost, keeping connected devices running.

6. Is the battery expandable?

Yes. The STORM supports modular battery expansion by linking compatible expansion batteries to increase total capacity and runtime.

7. Are the listed runtimes guaranteed?

No. Runtime figures are approximate, calculated from the rated battery capacity at typical inverter efficiency. Actual results vary with load type, ambient temperature, battery age, and operating conditions.

Disposal

This product must not be disposed of as unsorted household waste. It is important to separate such waste for proper treatment and recycling, in compliance with local waste management regulations.

Warranty

Products that you buy directly from our Powerology website or shop come with a 24-month warranty.

The 24-month warranty applies to products purchased directly from our Powerology website or store. If Powerology products are bought from any of our verified retailers, then the product is eligible for only a 12-month warranty. To extend your product's warranty, visit our website www.powerology.me/warranty and fill in your details in the provided form along with an uploaded picture of the product to process your request. Once approved, you will receive a confirmation email of the extended product warranty. Upload the required information within 48 hours of purchase to be eligible for a 24-month warranty period.

For more info, please check: www.powerology.me/warranty

Contact Us

Email: **hey@powerology.me**

Website: **www.powerology.me**

Instagram: **powerology_official**

Facebook: **powerology.ME**