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## A-iPower AP3700i

# A-iPower AP3700i Portable Inverter Generator User Manual

Model: AP3700i | Brand: A-iPower

## 1. INTRODUCTION

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This manual provides essential instructions for the safe operation, maintenance, and troubleshooting of your A-iPower AP3700i Portable Inverter Generator. This generator is designed to provide clean, stable power for various applications, from sensitive electronics to power tools, with 3700 starting watts and 3200 running watts. Please read this manual thoroughly before operating the generator to ensure safe and efficient use.

# <3% THD OF PURE POWER OUTPUT

For sensitive electronics phones, laptops, TVs



Image: The A-iPower AP3700i Inverter Generator highlighting its less than 3% Total Harmonic Distortion (THD) for pure power output, suitable for sensitive electronics like phones, laptops, and TVs.

## 2. SAFETY INFORMATION

### **WARNING: Carbon Monoxide Hazard.**

Using a generator indoors CAN KILL YOU IN MINUTES. Generator exhaust contains carbon monoxide (CO), a poisonous gas you cannot see or smell. NEVER use in an enclosed area or partially enclosed area. Always use OUTDOORS and far away from windows, doors, and vents.

### **WARNING: Electrical Shock Hazard.**

Do not operate in wet conditions. Ensure all connections are dry and secure. Ground the generator properly to prevent electrical shock.

### **WARNING: Fire Hazard.**

Gasoline is highly flammable. Refuel in a well-ventilated area with the engine off and cool. Do not smoke or allow open flames near the generator. Store fuel in approved containers only.

### **WARNING: Hot Surfaces.**

The generator engine and muffler become very hot during operation and remain hot for a period after shutdown. Avoid contact to prevent burns.

Always read and understand the complete safety instructions in the full owner's manual before operating this

equipment.

### 3. COMPONENTS OVERVIEW

Familiarize yourself with the key components of your A-iPower AP3700i generator:



Image: A detailed diagram illustrating the main features and components of the AP3700i generator, such as the telescopic handle, fuel tank, engine, and control panel.

- **Engine:** 223cc OHV 4-cycle engine provides reliable power.
- **Fuel Tank:** 2.6-gallon capacity for extended run times.
- **Control Panel:** Centralized interface for power outlets, indicator lights, and switches.
- **Telescopic Handle & Wheels:** For easy transport and mobility.
- **Muffler:** Designed for quiet operation.
- **Integrated Outlet Covers:** Protect outlets from dust and debris.

#### Control Panel Details

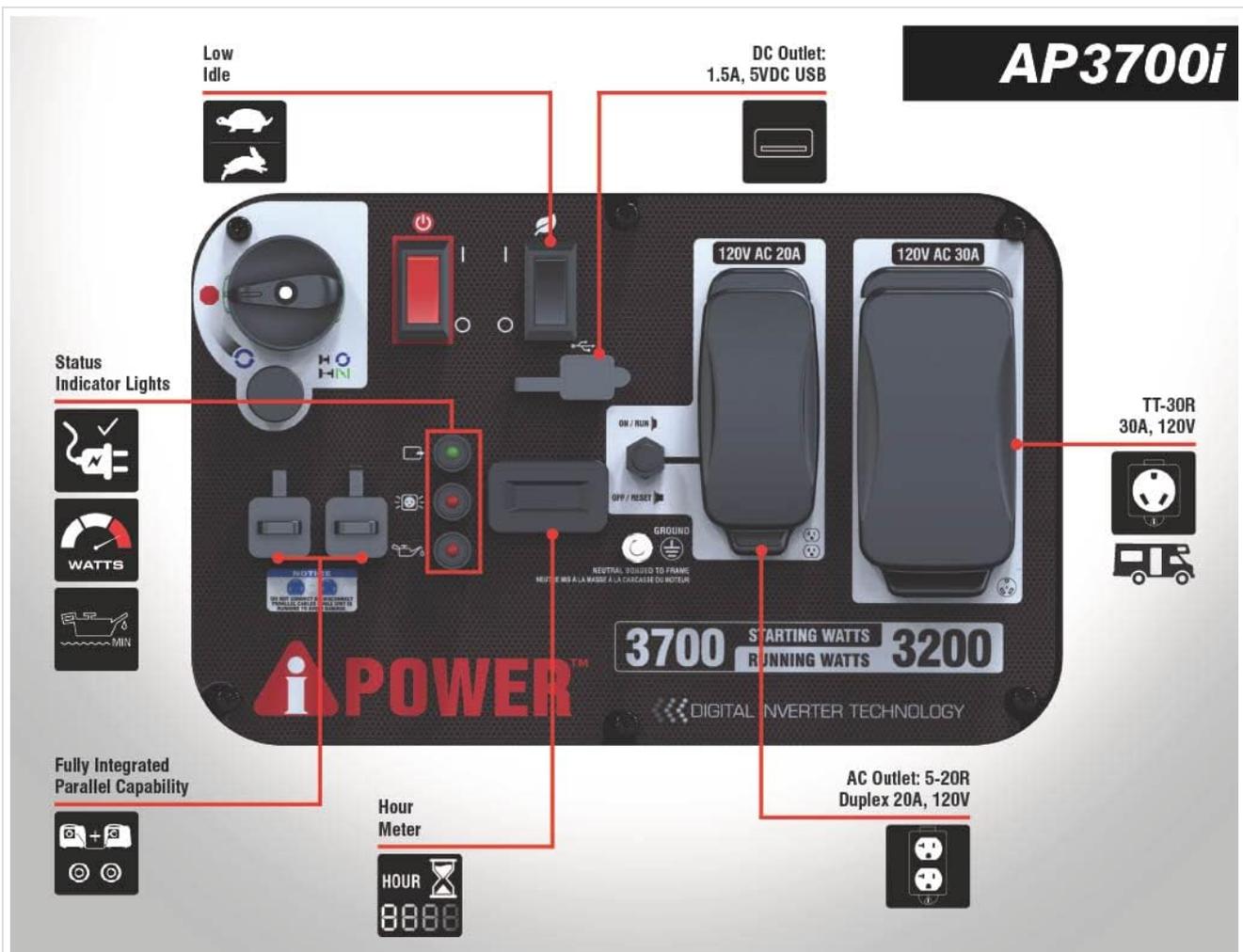


Image: A close-up diagram of the AP3700i control panel, clearly labeling all outlets, switches, and indicator lights for user reference.

- **Low Idle Switch (Eco-Mode):** Reduces engine speed for lighter loads, saving fuel and reducing noise.
- **Status Indicator Lights:** Indicate output, overload, and low oil conditions.
- **Hour Meter:** Tracks engine run time for maintenance scheduling.
- **USB Outlets (2x 2.4A 5VDC):** For charging small electronic devices.
- **AC Outlets:** 1x Duplex 5-20R 20A 120VAC and 1x L5-30R 30A 120VAC Twist Lock (RV Ready).
- **Parallel Connectivity Port:** Allows connection of two compatible generators for increased power.

## 4. SETUP

Follow these steps for initial setup before operating your generator:

1. **Unpacking:** Carefully remove the generator from its packaging. Inspect for any damage. Ensure all included accessories (oil funnel, spark plug wrench, etc.) are present.
2. **Add Engine Oil:** The engine is shipped without oil. Place the generator on a level surface. Remove the oil fill cap/dipstick. Using the provided funnel, slowly add 10W-30 engine oil until it reaches the upper mark on the dipstick. Do not overfill. (Capacity: approximately 0.6 quarts).
3. **Add Fuel:** Ensure the generator is off and cool. Open the fuel tank cap. Slowly add fresh, unleaded gasoline (minimum 87 octane) to the fuel tank. Do not fill above the red indicator ring inside the tank. Securely close the fuel cap. (Tank Volume: 2.6 Gallons).
4. **Grounding:** Connect a grounding wire from the generator's grounding terminal to a suitable ground source, as per local electrical codes.

# PORTABLE & LIGHTWEIGHT

Easy to carry with folding handle and wheels



Image: A person demonstrating the portability of the A-iPower AP3700i generator, easily moving it with its integrated telescopic handle and wheels.

## 5. OPERATING INSTRUCTIONS

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Follow these steps to safely start and operate your generator:

- 1. Preparation:** Ensure the generator is on a level, outdoor surface, away from combustible materials and at least 20 feet from any building openings. Check oil and fuel levels.
- 2. Starting Procedure:**
  - a. Turn the fuel valve to the 'ON' position.
  - b. Turn the engine switch to the 'ON' position.
  - c. Pull the choke lever to the 'CHOKE' position (if the engine is cold).
  - d. Firmly pull the recoil starter handle until the engine starts. Allow the engine to run for a few seconds.
  - e. Slowly push the choke lever to the 'RUN' position.
- 3. Connecting Electrical Devices:** Once the engine is running smoothly and the green 'Output Indicator' light is on, you can connect your electrical devices to the appropriate outlets. Do not exceed the generator's running wattage (3200W).
- 4. Eco-Mode Operation:** For lighter loads, activate the 'Eco-Mode' switch. This reduces engine speed, saving

fuel and lowering noise levels. The engine will automatically adjust speed based on load demand.

5. **Parallel Operation:** This generator is equipped with a parallel connectivity port. Refer to the full manual for instructions on connecting two compatible A-iPower inverter generators for increased power output.

6. **Shutting Down:**

- a. Disconnect all electrical devices.
- b. Turn the engine switch to the 'OFF' position.
- c. Turn the fuel valve to the 'OFF' position.

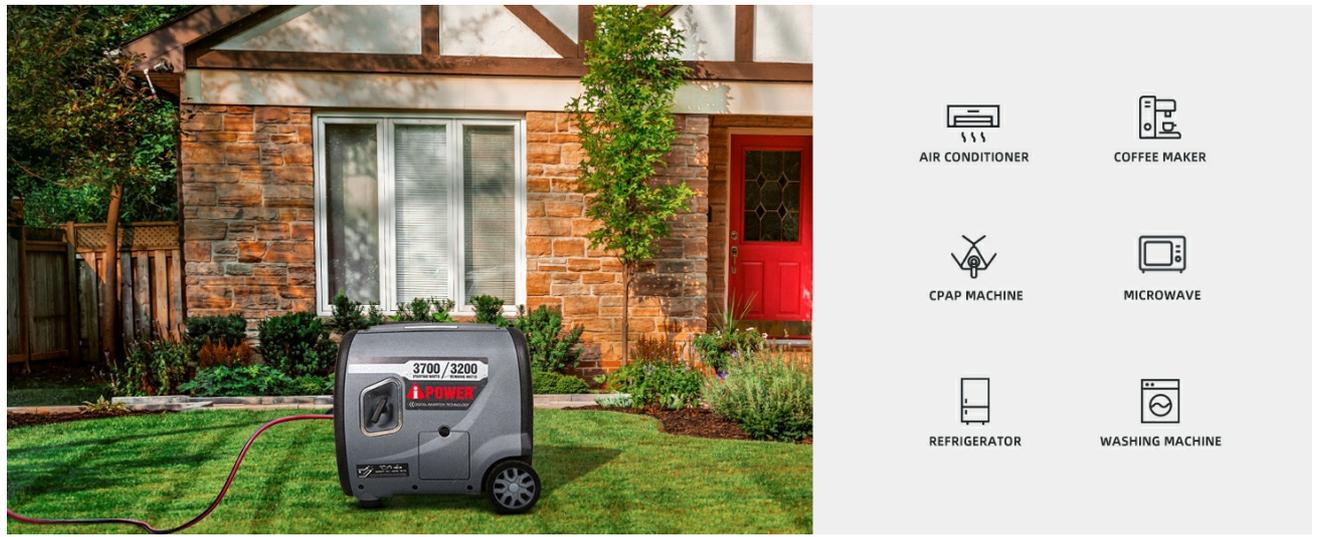


Image: The AP3700i generator providing power to a home, illustrating its capability to run essential household appliances.



Image: The AP3700i generator in a camping setting, demonstrating its use for powering outdoor and recreational equipment.



Image: The AP3700i generator providing power for heavy-duty tools, showcasing its versatility for work and DIY projects.

## 6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your generator. Always perform maintenance with the engine off and cool.

- **Engine Oil:** Check oil level before each use. Change oil after the first 20 hours of operation, then every 100 hours or annually, whichever comes first.
- **Air Filter:** Inspect every 50 hours or monthly. Clean or replace if dirty.
- **Spark Plug:** Inspect and clean every 100 hours or annually. Replace if worn or damaged.
- **Fuel System:** For long-term storage (over 30 days), drain the fuel tank and carburetor, or use a fuel stabilizer to prevent fuel degradation.
- **Cleaning:** Keep the generator clean and free of debris. Use a damp cloth to wipe down exterior surfaces.

Refer to the complete maintenance schedule in the full owner's manual for detailed instructions and additional maintenance tasks.

## 7. TROUBLESHOOTING

This section addresses common issues you might encounter with your generator.

Problem	Possible Cause	Solution
Engine will not start	Low fuel level Low engine oil level Engine switch OFF Fuel valve OFF Fouled spark plug Incorrect choke position	Add fresh fuel Add engine oil Turn engine switch ON Turn fuel valve ON Clean or replace spark plug Adjust choke for starting (CHOKE for cold, RUN for warm)
No power output	Circuit breaker tripped Overload Eco-mode with heavy load	Reset circuit breaker Reduce connected load Turn off Eco-mode for heavy loads
Engine runs rough	Stale fuel Dirty air filter Fouled spark plug	Drain and refill with fresh fuel Clean or replace air filter Clean or replace spark plug

For other issues, consult the detailed troubleshooting guide in the full owner's manual or contact customer support.

## 8. SPECIFICATIONS

Key technical specifications for the A-iPower AP3700i Portable Inverter Generator:



Image: A visual representation of the A-iPower AP3700i generator's dimensions and weight for planning storage and transport.

Specification	Value
Model Name	AP3700i
Brand	A-iPower
Starting Wattage	3700 Watts
Running Wattage	3200 Watts
Engine Type	223cc OHV 4-Stroke
Fuel Type	Gasoline
Tank Volume	2.6 Gallons
Run Time (at 50% load)	7 hours

Specification	Value
Total Harmonic Distortion (THD)	<3%
Outlets	1x L5-30R 30A 120VAC Twist Lock, 1x Duplex 5-20R 20A 120VAC, 2x USB 2.4A 5VDC
Product Dimensions (L x W x H)	26" x 21.7" x 23"
Item Weight	103.6 Pounds
Ignition System	Recoil Start

## 9. WARRANTY AND SUPPORT

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This A-iPower generator comes with a limited warranty. Please refer to the warranty card included with your product for specific terms and conditions regarding coverage and duration.

For technical assistance, parts, or warranty inquiries, please contact A-iPower Customer Support. Keep your model number (AP3700i) and serial number ready when contacting support for faster service.