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Pramac PMD 5000s

Pramac PMD 5000s Portable Diesel Generator User Manual

Model: PMD 5000s (PR452SXAY00)

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your **Pramac PMD 5000s Portable Diesel Generator**. Please read this manual thoroughly before operating the generator to ensure proper use, prevent injury, and avoid damage to the unit. Keep this manual for future reference.

The Pramac PMD 5000s is a robust portable power generator designed for various applications, featuring a powerful OHV diesel engine, electric start system, and an Automatic Voltage Regulator (AVR) for stable power output. Its integrated wheels and ergonomic handles ensure easy transport.

2. SAFETY INFORMATION

WARNING: Failure to follow these safety instructions can result in serious injury or death.

- **Carbon Monoxide Hazard:** Generators produce carbon monoxide, a colorless, odorless, poisonous gas. Operate the generator outdoors in a well-ventilated area, far from windows, doors, and vents. Never operate indoors or in partially enclosed spaces.
- **Electrical Shock Hazard:** Do not operate the generator in wet conditions. Ensure all electrical connections are dry and properly insulated. Use ground fault circuit interrupters (GFCIs) when operating in damp or wet locations.
- **Fire Hazard:** Diesel fuel is flammable. Refuel in a well-ventilated area with the engine off and cool. Do not smoke or allow open flames near the generator or fuel. Store fuel in approved containers.
- **Hot Surfaces:** The generator engine and muffler become very hot during operation and remain hot for some time after shutdown. Avoid contact with hot surfaces to prevent burns.
- **Moving Parts:** Keep hands, feet, hair, and clothing away from moving parts to prevent entanglement and injury.
- **Children and Pets:** Keep children and pets away from the generator at all times.
- **Proper Grounding:** Always ensure the generator is properly grounded before operation.

3. PRODUCT OVERVIEW

The Pramac PMD 5000s is a powerful and reliable portable diesel generator. Familiarize yourself with its components before operation.



An image of the Pramac PMD 5000s portable diesel generator, showcasing its robust design, integrated wheels for mobility, and the accessible control panel.

Key Components:

- **OHV Diesel Engine:** Provides consistent and stable power.
- **Fuel Tank:** 14.5-liter capacity for diesel fuel.
- **Control Panel:** Centralized interface for monitoring and operating the generator.
- **Outlets:** Includes a Schuko 230V 16A IP44 socket and a 2P+T CEE 230V 32A IP44 socket.
- **12V DC Battery Charger Output:** For charging external 12V batteries.
- **ATS Connector:** For connection to an Automatic Transfer Switch (ATS) for emergency network backup.
- **Integrated Wheels and Handles:** For easy portability.

Control Panel Features:

- **On/Off/Start Switch:** Controls engine operation.

- **Digital Multimeter:** Displays Voltmeter, Frequency Meter, and Hour Meter.
- **Fuel Level Indicator:** Shows remaining fuel.
- **Thermal Magnetic Protections:** Safeguards against overloads.
- **Low Oil Level Protection:** Automatically shuts down the engine if oil is low.
- **9A (12V DC) Fuse:** Protects the 12V DC output.

4. SETUP

Follow these steps to prepare your generator for first use:

1. **Unpacking and Inspection:** Carefully remove the generator from its packaging. Inspect for any shipping damage. Report any damage to your dealer immediately.
2. **Wheel Assembly:** Attach the integrated wheels and handles if they are not pre-assembled, following the instructions in the separate assembly guide (if provided).
3. **Add Engine Oil:** The engine is shipped without oil. Fill the crankcase with the recommended type and amount of engine oil (1.65 liters capacity). Refer to the engine manual for specific oil recommendations. Do not overfill.
4. **Add Diesel Fuel:** Fill the fuel tank with clean, fresh diesel fuel. The tank capacity is 14.5 liters. Do not overfill and ensure the fuel cap is securely tightened.
5. **Battery Connection:** Connect the battery for the electric start system. Ensure correct polarity (+ to + and - to -).
6. **Placement:** Position the generator on a firm, level surface outdoors in a well-ventilated area, away from combustible materials and at least 1 meter (3 feet) from buildings or other equipment.
7. **Grounding:** Connect a grounding wire from the generator's grounding terminal to an appropriate earth ground.

5. OPERATING INSTRUCTIONS

Starting the Generator:

1. **Pre-Start Checks:**
 - Check engine oil level.
 - Check fuel level.
 - Ensure all electrical loads are disconnected from the generator outlets.
 - Verify proper grounding.
2. **Turn On Fuel Valve:** If equipped, open the fuel valve.
3. **Electric Start:** Turn the On/Off/Start switch to the 'Start' position. Release the switch once the engine starts. If the engine does not start within 5 seconds, wait 10 seconds before trying again to prevent battery drain.
4. **Warm-up:** Allow the generator to run for a few minutes to warm up before connecting any electrical loads.

Connecting Electrical Loads:

1. Plug your appliances or extension cords into the appropriate 230V 16A or 32A outlets.
2. Do not overload the generator. The total wattage of all connected appliances must not exceed the generator's rated output (4200W continuous, 5000W max).
3. Monitor the voltmeter and frequency meter on the control panel to ensure stable output.

Stopping the Generator:

1. Disconnect all electrical loads from the generator outlets.
2. Allow the generator to run for a few minutes without load to cool down.
3. Turn the On/Off/Start switch to the 'Off' position.
4. If equipped, close the fuel valve.

6. MAINTENANCE

Regular maintenance is crucial for the longevity and reliable operation of your generator. Always perform maintenance with the engine off and cool, and disconnect the battery.

Maintenance Schedule (General Guidelines):

- **Before Each Use:**
 - Check engine oil level.
 - Check fuel level.
 - Inspect for any leaks or loose connections.
- **Every 50 Hours or Monthly:**
 - Change engine oil.
 - Clean or replace air filter.
 - Inspect fuel filter.
- **Every 100 Hours or Annually:**
 - Inspect and clean spark plug (if applicable, for diesel engines, check glow plugs).
 - Inspect fuel lines and connections.
 - Check battery terminals and charge level.

Storage:

If storing the generator for an extended period:

- Drain the fuel tank or add a fuel stabilizer.
- Change the engine oil.
- Clean the exterior of the generator.
- Store in a clean, dry, well-ventilated area.

7. TROUBLESHOOTING

This section provides solutions to common operational issues. For problems not listed here, contact qualified service personnel.

Problem	Possible Cause	Solution
Engine will not start	No fuel Low oil level Battery discharged Faulty On/Off/Start switch	Add diesel fuel Add engine oil Charge or replace battery Contact service center
No power output	Circuit breaker tripped Overload Faulty AVR	Reset circuit breaker Reduce connected load Contact service center
Engine stops during operation	Low oil level Out of fuel Overload	Add engine oil Add diesel fuel Reduce connected load
Unusual noise or vibration	Loose components Internal engine issue	Check for and tighten loose parts Stop engine immediately and contact service center

8. SPECIFICATIONS

Specification	Value
Brand	Pramac
Model Number	PR452SXAY00
Product Dimensions (L x W x H)	68 x 60.2 x 52.3 cm
Weight	161 Kilograms
Power Output (Rated)	4200 Watts
Power Output (Max)	5000 Watts
Voltage	230 Volts
Fuel Type	Diesel
Power Source	Fuel Powered
Engine Type	OHV Diesel
Fuel Tank Capacity	14.5 Liters
Oil Sump Capacity	1.65 Liters

Specification	Value
Run Time @ 50% Load	11.3 Hours
Fuel Consumption @ 50% Load	1.28 L/h
Acoustic Pressure @ 7m	69 dBA
Special Features	Hour Meter, Electric Start, Automatic Voltage Regulator (AVR)
Included Components	Power cable (Schuko 230V 16A IP44 socket and 2P+T CEE 230V 32A IP44 socket)
Recommended Uses	Domestic, Industrial, Leisure

9. WARRANTY AND SUPPORT

For warranty information, please refer to the warranty card included with your product or contact Pramac customer service directly. Keep your proof of purchase for warranty claims.

For technical support or spare parts, please contact your authorized Pramac dealer or visit the official Pramac website for service center locations and contact details.