

HYUNDAI DHY8500LEK-T

Hyundai DHY8500LEK-T FullPower Diesel Generator User Manual

Model: DHY8500LEK-T

1. SAFETY INFORMATION

Read and understand all safety instructions before operating the generator. Failure to follow these instructions can result in serious injury or death.

- **Carbon Monoxide Hazard:** Generators produce carbon monoxide, a colorless, odorless, poisonous gas. Operate generators outdoors only, far away from windows, doors, and vents.
- **Electrical Shock Hazard:** Never operate the generator in wet conditions. Ensure all electrical connections are secure and properly grounded.
- **Fire Hazard:** Fuel is highly flammable. Refuel in a well-ventilated area with the engine off and cool. Do not smoke near the generator.
- **Hot Surfaces:** The generator engine and muffler become very hot during operation and remain hot for a period after shutdown. Avoid contact.
- **Moving Parts:** Keep hands, feet, hair, and clothing away from moving parts to prevent injury.
- **Children and Pets:** Keep children and pets away from the generator at all times.

2. PRODUCT OVERVIEW

The Hyundai DHY8500LEK-T is a FullPower diesel generator designed for reliable power supply. It features a 4-stroke, air-cooled, direct injection engine with a low oil level alarm for automatic shutdown. Its robust design includes a double support base to minimize vibrations and a large fuel tank for extended operation. The compact engine ensures easy installation, low maintenance, and efficient fuel consumption, providing quick and easy starting. The alternator is compact, features AVR voltage regulation for stable output, and uses 100% copper winding for durability.

Key features include:

- FullPower diesel generator (single-phase and three-phase output).

- Maximum power output of 8.1 kVA (400V) / 6.5 kW (230V).
- Equipped with a 13 HP engine and 498 cc displacement.
- Weighs 116 kg with a sound level of 77 dBA at 7 meters distance and 75% load.
- Portable design with integrated wheels for easy transport.

3. COMPONENTS IDENTIFICATION

Familiarize yourself with the main components of your generator:



Figure 1: Front view of the Hyundai DHY8500LEK-T generator, showing the control panel with various outlets, switches, and display. The generator is black with a sturdy frame and a wheel visible on the right side.



Figure 2: Side view of the Hyundai DHY8500LEK-T generator, highlighting the diesel engine and air filter housing. The generator's robust frame and wheels are also visible.



Figure 3: Opposite side view of the Hyundai DHY8500LEK-T generator, showing the 12V 36AH battery and the alternator assembly. This view also shows the exhaust area and another wheel.



Figure 4: Rear view of the Hyundai DHY8500LEK-T generator, displaying the protective grilles and the overall compact structure. The wheels and support feet are visible.

Refer to the labels on the generator for specific component names and functions.

4. SETUP

Before first use, perform the following setup steps:

1. **Unpacking:** Carefully remove the generator from its packaging. Inspect for any shipping damage.
2. **Wheel Assembly:** Attach the wheels and support feet as per the included hardware. Ensure they are securely fastened for stability and portability.
3. **Battery Connection:** Connect the battery terminals. Ensure positive (+) is connected to positive and

negative (-) to negative. Tighten connections securely.

4. **Add Engine Oil:** Remove the oil filler cap/dipstick. Fill the engine with the recommended diesel engine oil (refer to specifications for type and capacity) to the upper mark on the dipstick. Do not overfill.
5. **Add Diesel Fuel:** Open the fuel tank cap. Fill the tank with clean, fresh diesel fuel. Do not overfill and ensure the cap is securely closed.
6. **Pre-Start Checks:**
 - Check oil level.
 - Check fuel level.
 - Ensure all electrical connections are tight.
 - Verify the generator is on a level, stable surface.
 - Ensure the area is well-ventilated and clear of flammable materials.

5. OPERATING INSTRUCTIONS

Follow these steps to safely operate your generator:

1. **Starting the Engine:**
 - Ensure all loads are disconnected from the generator.
 - Turn the fuel valve to the 'ON' position.
 - Turn the engine switch to the 'ON' position.
 - Insert the key into the ignition switch and turn it to the 'START' position. Release the key once the engine starts.
 - Allow the engine to warm up for a few minutes before connecting any electrical loads.
2. **Connecting Electrical Loads:**
 - Connect your appliances or power tools to the appropriate outlets (230V single-phase or 400V three-phase).
 - Do not overload the generator. Ensure the total wattage of connected devices does not exceed the generator's rated output.
3. **Stopping the Engine:**
 - Disconnect all electrical loads from the generator.
 - Allow the engine to run for a few minutes without load to cool down.
 - Turn the ignition key to the 'OFF' position.
 - Turn the fuel valve to the 'OFF' position.

6. MAINTENANCE

Regular maintenance is crucial for the longevity and optimal performance of your generator. Always ensure the engine is off and cool before performing any maintenance.

- **Engine Oil:**
 - Check oil level before each use.
 - Change engine oil after the first 20 hours of operation, then every 100 hours or annually, whichever comes first.
- **Air Filter:**
 - Inspect the air filter every 50 hours or monthly.

- Clean or replace the air filter element as needed, especially in dusty conditions.
- **Fuel Filter:**
 - Inspect the fuel filter periodically for sediment or blockage.
 - Replace if necessary.
- **General Cleaning:** Keep the generator clean and free of dirt, debris, and fuel spills. Use a dry cloth or soft brush.
- **Storage:** For long-term storage, drain the fuel tank and carburetor, or add a fuel stabilizer. Store in a 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 does not start	No fuel or low fuel level	Add diesel fuel
	Low engine oil level	Add engine oil to correct level
	Battery discharged or loose connections	Charge battery or tighten connections
	Fuel valve OFF	Turn fuel valve to ON
	Engine switch OFF	Turn engine switch to ON
No power output	Circuit breaker tripped	Reset circuit breaker
	Overload	Reduce connected load
	Faulty connection	Check and secure connections
Engine runs rough	Stale or contaminated fuel	Drain and refill with fresh diesel
	Clogged air filter	Clean or replace air filter

8. SPECIFICATIONS

Detailed technical specifications for the Hyundai DHY8500LEK-T Diesel Generator:

Specification	Value
Brand	HYUNDAI
Model Number	HY-DHY8500LEK-T
Product Dimensions (L x W x H)	72 x 48 x 60 cm
Item Weight	116 Kilograms
Color	Black
Power Type	Fuel Powered
Fuel Type	Diesel
Voltage	400 Volts

Specification	Value
Power (Rated)	7.5 KW
Output Power (Rated)	6500 Watts
Maximum Power	8.1 Kilowatt (kVA)
Horsepower (HP)	12 HP
Display Type	LED 3
Special Features	Compact, Wheels
Included Components	Generator, Wheels
Battery(ies) Included	Yes
Battery Composition	Lead Acid

9. WARRANTY AND SUPPORT

For warranty information, technical support, or to order spare parts, please contact your authorized Hyundai dealer or visit the official Hyundai power equipment website. Keep your purchase receipt as proof of purchase for warranty claims.

Please note that spare parts availability information is not provided in the product details. Contact your dealer for specific inquiries.