

Kompak DK6100SE-3

Kompak DK6100SE-3 6.9 kVA Diesel Generator User Manual

Model: DK6100SE-3

1. INTRODUCTION

Thank you for choosing the Kompak DK6100SE-3 Diesel Generator. This manual provides essential information for the safe operation, maintenance, and troubleshooting of your generator. Please read this manual thoroughly before operating the unit to ensure proper use and to prevent injury or damage.

The Kompak DK6100SE-3 is a robust 6.9 kVA diesel generator, ideal for demanding applications such as construction sites or as a reliable backup power source for homes and businesses. It features a 4-stroke direct injection diesel engine, an AVR voltage regulator for stable power output, and an enclosed design for reduced noise levels.

2. SAFETY INSTRUCTIONS

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

- **Carbon Monoxide Hazard:** Never operate the generator indoors or in poorly ventilated areas. Exhaust fumes contain carbon monoxide, a colorless, odorless, and deadly gas.
- **Electrical Shock Hazard:** Do not operate the generator in wet conditions. Ensure all electrical connections are secure and properly grounded. Never touch live electrical parts.
- **Fire Hazard:** Fuel 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.
- **Hot Surfaces:** The generator engine and muffler become very hot during operation and remain hot for some time after shutdown. Avoid contact to prevent burns.
- **Moving Parts:** Keep hands, feet, and clothing away from moving parts such as the fan and belts.
- **Children and Pets:** Keep children and pets away from the generator at all times.
- **Personal Protective Equipment (PPE):** Wear appropriate PPE, including hearing protection, when

operating the generator.

- **Read the Manual:** Always read and understand the entire instruction manual before operating or servicing the generator.

3. SETUP AND PREPARATION

Before starting the generator, perform the following checks and preparations:

1. Unpacking and Placement:

Carefully remove the generator from its packaging. The unit is supplied with wheels for easier transport. Place the generator on a firm, level surface in a well-ventilated outdoor area, away from windows, doors, and vents.



Image 1: Kompak DK6100SE-3 Diesel Generator. Shows the generator unit with its protective casing and wheels, ready for placement.

2. Check Engine Oil Level:

Ensure the engine oil level is between the 'L' (low) and 'H' (high) marks on the dipstick. Use recommended diesel engine oil (refer to specifications). The oil capacity is 1.65 liters. The generator features low oil protection, which will shut down the engine if oil levels are insufficient.

3. Add Fuel:

Fill the fuel tank with clean diesel fuel. The tank capacity is 12 liters. Do not overfill. Ensure the fuel cap is securely tightened after refueling.

4. Connect Battery:

Connect the battery terminals, ensuring correct polarity (positive to positive, negative to negative). The generator includes a 32 Ah battery for electric start.

5. Grounding:

Properly ground the generator to prevent electrical shock. Connect a grounding wire from the generator's grounding terminal to an appropriate ground source.

4. OPERATING INSTRUCTIONS

4.1. Starting the Generator

1. Ensure all electrical loads are disconnected from the generator outlets.
2. Turn the fuel valve to the 'ON' position.
3. Turn the engine switch to the 'START' position. The electric starter will engage.
4. Once the engine starts, release the switch to the 'RUN' position.
5. Allow the engine to warm up for a few minutes before connecting any electrical loads.

6. Monitor the LED3 display for voltage, frequency (Hz), and hour meter readings.

4.2. Connecting Electrical Loads

- Connect your appliances or tools to the 400 V or 230 V outlets. The generator has one 400 V outlet and one 230 V outlet.
- *Note: When using the 230 V outlet, only one-third of the generator's total performance is available.*
- Do not exceed the generator's rated power output (6.25 kVA / 5 kW) to prevent overload. The generator is equipped with overload protection.
- The AVR (Automatic Voltage Regulator) ensures stable voltage output, making it suitable for sensitive electronics.
- The generator also features a 12 V / 8.3 A DC output for charging batteries.
- An ATS (Automatic Transfer Switch) connection is available for automatic power transfer applications.

4.3. 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 engine switch to the 'OFF' position.
4. Turn the fuel valve to the 'OFF' position.

5. MAINTENANCE

Regular maintenance is crucial for the longevity and reliable operation of your generator.

Maintenance Schedule

Item	Before Each Use	Every 50 Hours / Monthly	Every 100 Hours / 3 Months	Every 300 Hours / Annually
Check Engine Oil Level	✓			
Check Fuel Level	✓			
Check Air Filter		Clean		
Change Engine Oil			✓	
Check Fuel Filter				Replace
Check Battery Terminals		✓		
Inspect Spark Plug (if applicable)				Clean/Replace

Always use genuine Kompak replacement parts or equivalents. For complex maintenance tasks, consult a qualified service technician.

6. TROUBLESHOOTING

This section provides solutions to common operational issues. If the problem persists, contact customer support.

Common Issues and Solutions

Problem	Possible Cause	Solution
Engine does not start	<ul style="list-style-type: none"> ◦ No fuel ◦ Low engine oil ◦ Battery discharged/disconnected ◦ Engine switch in 'OFF' position 	<ul style="list-style-type: none"> ◦ Add diesel fuel ◦ Add engine oil to correct level ◦ Charge/connect battery ◦ Turn engine switch to 'START'
No power output	<ul style="list-style-type: none"> ◦ Overload protection tripped ◦ Loose connections ◦ Faulty appliance 	<ul style="list-style-type: none"> ◦ Reduce load, reset breaker ◦ Check and secure all connections ◦ Test appliance on another power source
Engine runs, but rough	<ul style="list-style-type: none"> ◦ Dirty air filter ◦ Contaminated fuel 	<ul style="list-style-type: none"> ◦ Clean/replace air filter ◦ Drain fuel tank, refill with fresh diesel

7. TECHNICAL SPECIFICATIONS

Specification	Value
Model	DK6100SE-3
Brand	Kompak
Frequency	50 Hz
Voltage	400 V / 230 V
Rated Power (400V)	6.25 kVA / 5 kW
Maximum Power (400V)	6.9 kVA / 5.5 kW
Amperage	11 A
Engine Type	4-stroke Diesel, Direct Injection (D400E)
Engine Power	10.0 PS
Displacement	418 cc
RPM	3000 rpm
Fuel Tank Capacity	12 Liters

Specification	Value
Operating Time (50% load)	16 Hours
Oil Capacity	1.65 Liters
Noise Level (at 7m)	79 dBA
Start System	Electric Start (32 Ah Battery included)
Outlets	1 x 400 V, 1 x 230 V, 1 x 12 V / 8.3 A DC
Features	AVR, ATS Connection, Overload Protection, Low Oil Protection, LED3 Display (Volt, Hz, Hour)
Dimensions (L x W x H)	960 x 560 x 830 mm
Gross Weight	170 kg
UPC	726858573731

8. WARRANTY AND SUPPORT

The Kompak DK6100SE-3 Diesel Generator comes with a **1-year warranty** from the date of purchase. This warranty covers manufacturing defects and faulty workmanship under normal use and service conditions.

The warranty does not cover:

- Damage caused by improper use, neglect, or lack of maintenance.
- Damage caused by unauthorized modifications or repairs.
- Normal wear and tear of consumable parts (e.g., filters, spark plugs, oil).
- Damage from accidents or natural disasters.

For warranty claims, technical support, or to order replacement parts, please contact your authorized Kompak dealer or customer service. Please have your model number (DK6100SE-3) and proof of purchase ready.