

## K&S Könner&Söhnen KS 2100iG S

# Könner & Söhnen KS 2100iG S Dual Fuel Inverter Generator User Manual

Model: KS 2100iG S | Brand: K&S Könner&Söhnen

## 1. INTRODUCTION

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This user manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your Könner & Söhnen KS 2100iG S Dual Fuel Inverter Generator. Please read this manual thoroughly before operating the generator to ensure proper use and to prevent injury or damage.

The KS 2100iG S is a comfortable, portable, and quiet energy source, featuring an integrated inverter module with microprocessor control to produce a pure sine wave 230V 50Hz output, suitable for sensitive electronic devices. It operates on both unleaded petrol and liquefied petroleum gas (LPG), offering versatile fuel options.

## 2. SAFETY INFORMATION

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Always observe the following safety precautions to reduce the risk of injury, fire, or damage to the generator.

### General Safety Rules:

- Read and understand all instructions before operating the generator.
- Keep children and pets away from the generator during operation.
- Operate the generator only in well-ventilated areas. Never operate indoors or in enclosed spaces.
- Do not operate the generator in wet conditions or expose it to rain.
- Ensure the generator is placed on a level, stable surface.
- Turn off the generator and allow it to cool before refueling or performing maintenance.

### Fuel Safety:

- Petrol and LPG are highly flammable. Handle with extreme care.
- Refuel in a well-ventilated area with the engine off.
- Do not smoke or allow open flames near the generator or fuel.
- Store fuel in approved containers away from heat sources.

### Electrical Safety:

- Do not overload the generator.
- Ensure all electrical connections are secure and in good condition.
- Use only grounded extension cords and appliances.
- Never connect the generator directly to a building's electrical system without a qualified electrician and an approved transfer switch.

### 3. PRODUCT OVERVIEW

The Könnér & Söhnen KS 2100iG S is designed for reliability and convenience. Below are its key features and components.



Figure 3.1: The Könnér & Söhnen KS 2100iG S Dual Fuel Inverter Generator shown with an LPG tank, highlighting its compact design and dual fuel capability.

#### Key Features:

- **Dual Fuel Technology:** Operates on both unleaded petrol and liquefied petroleum gas (LPG), providing flexibility and extended run times. A gas hose with pressure regulators for connection to a gas bottle (DIN 477

standard) is included.

- **Pure Sine Wave Inverter:** Equipped with an integrated inverter module and microprocessor control, ensuring a stable and high-quality pure sine wave output (230V 50Hz) suitable for sensitive electronics.



Figure 3.2: Illustration of the generator's pure sine wave output, maximum power of 2.0 kW (rated 1.8 kW), and reliable K&S brand engine.

- **Low Noise Operation & ECO Mode:** Features a sound-insulated housing for a low noise level of 62 dB (Lpa at 7m). The ECO mode automatically adjusts engine RPM based on load, reducing fuel consumption by up to 50% and minimizing noise.

# Générateur hybride qui peut être facilement basculé entre l'essence et le gaz!



✓  
Universalité d'utilisation!

Figure 3.3: The hybrid generator's versatility, allowing easy switching between petrol and gas fuel sources.

- **Ergonomic Control Panel:** Equipped with an intuitive control panel including an LED indicator, 16A Schuko socket, two USB ports (5V/1A, 5V/2.1A), ECO mode switch, operational status indicators, and a reset button.

# SYSTÈME DE DÉMARRAGE MOTEUR FACILE 3 EN 1



Figure 3.4: Fuel consumption rates at 50% load, illustrating efficiency for extended use.

- **Parallel Connection Function:** Allows two identical KS 2100iG S generators to be coupled using the KS PU1 parallel switching box to double the power output.



Figure 3.5: Overview of the generator's ECO mode for efficiency, low noise operation, manual start system, and a display of included accessories.

- **High-Quality Alternator:** Features a brushless alternator with permanent magnets and 100% copper winding, designed to withstand high loads and ensure durable, reliable operation.



Figure 3.6: Close-up of the ergonomic control panel, highlighting the parallel connection port and the high-quality alternator for stable power.

- **Compact and Portable:** With a net weight of 19 kg and compact dimensions, it is an indispensable aid for travel and outdoor activities.

**Fournit une alimentation de haute qualité,  
cruciale pour les appareils avec des composants  
électroniques sensibles!**



Figure 3.7: The generator's ability to provide high-quality, stable power, crucial for sensitive electronic devices such as laptops, tablets, and smartphones.

## 4. SETUP

### 4.1 Unpacking and Inspection

- Carefully remove the generator from its packaging.
- Inspect for any shipping damage. If damaged, contact your dealer immediately.
- Verify all included accessories are present: user manual, gas hose with pressure regulator, spark plug wrench, oil filling funnel, parallel connection cable, Schuko 16A plug, PH2 6.0mm screwdriver, battery charging terminals.

### 4.2 Adding Engine Oil

The engine is shipped without oil. You must add engine oil before first use.

1. Place the generator on a level surface.
2. Locate the oil fill cap/dipstick.
3. Using the provided funnel, slowly add 0.35 liters of recommended engine oil (e.g., SAE 10W-30) until it reaches the upper mark on the dipstick. Do not overfill.

4. Securely replace the oil fill cap.

### 4.3 Connecting Fuel

#### For Petrol Operation:

1. Ensure the generator is off and cool.
2. Open the fuel tank cap.
3. Fill the 4.0-liter fuel tank with unleaded petrol (octane 91-95). Do not overfill.
4. Securely close the fuel tank cap.

#### For LPG Operation:

1. Ensure the generator is off and cool.
2. Connect one end of the gas hose with pressure regulator to the generator's LPG inlet.
3. Connect the other end of the gas hose to a standard LPG gas bottle (DIN 477).
4. Ensure all connections are tight and leak-free.

## 5. OPERATING INSTRUCTIONS

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### 5.1 Starting the Generator

#### Manual Start (Petrol):

1. Ensure the generator is on a level surface and away from flammable materials.
2. Set the fuel selector switch to 'Petrol'.
3. Turn the engine switch to 'ON'.
4. If cold, apply choke.
5. Pull the recoil starter handle firmly until the engine starts.
6. Once started, gradually open the choke (if used).

#### Manual Start (LPG):

1. Ensure the generator is on a level surface and away from flammable materials.
2. Set the fuel selector switch to 'LPG'.
3. Open the valve on the LPG gas bottle.
4. Turn the engine switch to 'ON'.
5. Pull the recoil starter handle firmly until the engine starts.

### 5.2 ECO Mode Operation

The ECO mode reduces engine speed when the electrical load is low, improving fuel efficiency and reducing noise.

- To activate ECO mode, press the 'ECO' switch on the control panel. The ECO indicator light will illuminate.
- To deactivate ECO mode for full power, press the 'ECO' switch again.

### 5.3 Parallel Connection (Optional)

To double the power output, two identical KS 2100iG S generators can be connected in parallel using the optional KS PU1 parallel switching box and the included parallel connection cable.

1. Ensure both generators are off and cool.
2. Connect the parallel connection cable between the parallel ports of both generators.
3. Follow the instructions provided with the KS PU1 parallel switching box for proper setup and operation.

## 5.4 Connecting Electrical Devices

- Once the generator is running stably, you can connect your electrical devices to the 230V Schuko socket or the 5V USB ports.
- Do not exceed the generator's rated power (1.8 kW continuous, 2.0 kW peak).
- If an overload occurs, the overload indicator will light up, and power output will stop. Disconnect devices and press the reset button to restore power.

## 5.5 Shutting Down the Generator

1. Disconnect all electrical devices from the generator.
2. If operating on LPG, close the valve on the gas bottle first to allow residual gas in the line to burn off.
3. Turn the engine switch to 'OFF'.

# 6. MAINTENANCE

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Regular maintenance ensures the longevity and reliable performance of your generator. Always turn off the generator and allow it to cool before performing any maintenance.

## 6.1 Engine Oil Check and Change

- **Daily/Before Each Use:** Check engine oil level and add if necessary.
- **First 20 Hours:** Change engine oil.
- **Every 50 Hours or Annually:** Change engine oil.

## 6.2 Air Filter Cleaning

- **Every 50 Hours or Annually (more often in dusty conditions):** Inspect and clean the air filter.
- Remove the air filter cover and filter element.
- Clean the foam element with warm, soapy water, rinse thoroughly, and allow to air dry completely. Lightly oil the foam element with engine oil before reinstallation.

## 6.3 Spark Plug Inspection

- **Every 100 Hours or Annually:** Inspect the spark plug.
- Remove the spark plug using the provided wrench.
- Check for carbon deposits or wear. Clean or replace if necessary. Ensure proper gap.

## 6.4 Storage

For long-term storage (more than 30 days):

1. Drain the fuel tank and carburetor of petrol, or ensure the LPG line is purged.
2. Change the engine oil.
3. Remove the spark plug and pour a tablespoon of engine oil into the cylinder. Pull the recoil starter a few times to distribute the oil, then reinstall the spark plug.
4. Clean the exterior of the generator.
5. Store in a clean, dry, well-ventilated area.

# 7. TROUBLESHOOTING

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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 / Incorrect fuel type	Add fresh fuel (petrol or LPG) / Ensure correct fuel selected.
	Low engine oil	Add engine oil to the correct level.
	Spark plug faulty or dirty	Clean or replace spark plug.
No power output	Overload protection activated	Reduce load, press reset button on control panel.
	Circuit breaker tripped	Reset the circuit breaker.
Engine runs rough	Stale fuel / Dirty air filter	Drain old fuel and add fresh / Clean or replace air filter.

## 8. SPECIFICATIONS

Detailed technical specifications for the Könnér & Söhnen KS 2100iG S generator.



Figure 8.1: Physical dimensions (Length x Width x Height) and net weight of the KS 2100iG S generator.

Specification	Value
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Specification	Value
Model	KS 2100iG S
Engine Model	Könner & Söhnen KS 110i
Engine Type	Petrol, 4-stroke with air cooling
Displacement	79.7 cm <sup>3</sup>
Engine Power	3.3 HP
Fuel Type	LPG (Propane-Butane) / Unleaded Petrol (Octane 91-95)
Petrol Tank Volume	4.0 Liters
Engine Oil Capacity	0.35 Liters
Noise Level Lpa (at 7m)/Lwa	62/87 dB
Maximum Power	2.0 kW
Rated Power	1.8 kW
Voltage	230 V
Frequency	50 Hz
Current (Maximum)	8.70 A
Starter	Manual
Sockets	1 x Schuko 230 V, 2 x USB (5V/1A, 5V/2.1A)
Net Dimensions (L x W x H)	480 x 290 x 430 mm
Gross Dimensions (L x W x H)	510 x 320 x 475 mm
Net Weight	19 kg
Gross Weight	22.3 kg

## 9. WARRANTY AND SUPPORT

Könner & Söhnen products are manufactured to high-quality standards. For warranty information, technical support, or spare parts, please contact your authorized dealer or the manufacturer directly. Retain your proof of purchase for warranty claims.

You can find more information and contact details on the official K&S Könner&Söhnen website or through your point of purchase.