



MODEL-S

SELF-POWERED PORTABLE
DIESEL HEATER



USER MANUAL

Self-Powered Heat. Anywhere.

Keep this manual for future reference.
houswin.us

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1. BEFORE YOU START

Thank you for choosing the Houswin Model-S.

The Model-S is a portable diesel heater designed to provide reliable heat in places where electrical power may be limited or unavailable. After startup, the built-in power generation system supplies operating power and recharges the internal battery pack while the heater is running.

Designed for overlanding, truck and RV camping, winter camping, hunting, fishing, emergency shelters, work sites, remote cabins, and other off-grid applications.

WARNING - READ BEFORE OPERATING

Read the safety, installation, startup, and shutdown instructions before using the heater. Improper installation or operation may cause fire, burns, carbon monoxide exposure, equipment damage, serious injury, or death.

2. IMPORTANT SAFETY INFORMATION

WARNING - EXHAUST & CARBON MONOXIDE

Exhaust gases must always be vented outdoors. Never discharge heater exhaust into a tent, vehicle, camper, enclosed shelter, or other occupied space. Position the exhaust outlet so fumes cannot be drawn back through doors, windows, vents, or other openings.

WARNING - HOT EXHAUST COMPONENTS

The exhaust system becomes extremely hot during operation. Keep exhaust components away from combustible materials. Do not touch exhaust components while operating. Allow all parts to cool before handling or storage.

WARNING - FUEL

Use diesel fuel only. Turn the heater off before refueling. Never refuel while operating or near an ignition source. Clean spilled fuel before starting and inspect fuel components for leaks.

WARNING - MODIFICATIONS

Do not modify combustion, fuel, electrical, or safety components. Unauthorized modifications may create unsafe operating conditions and may affect warranty coverage.

3. KNOW YOUR MODEL-S



Main Features

- Self-powered operation
- Built-in diesel power generation system
- Internal rechargeable battery pack
- Adjustable heat output
- USB charging output
- Remote control
- Low fuel consumption
- High-altitude capability
- Portable all-in-one design

4. MODEL-S SPECIFICATIONS

Specification	Model-S
Heating Medium	Air
Heat Output	Levels 1-9
Rated Heat Range	1-4 kW
Maximum Heat Output	Up to 15,000 BTU/hr
Fuel Consumption	0.026-0.13 gal/hr
Power Consumption	<40 W
Maximum Voltage	16.8 V
Noise Level	30-70 dB
USB Output	5 V / 5 A
Operating Temperature	-40°F to 104°F
Fuel	Diesel only
Battery	4 x 26650 Li-ion
Fuel Tank Capacity	1.0 gallon
Weight	13 kg
Dimensions	19 x 13.5 x 21.5 in

5. INSTALLATION & SETUP

Place the heater on a stable surface. Make sure the air intake, heated-air outlet, and exhaust system are unobstructed.

Exhaust Setup

- Connect the exhaust components securely.
- Install the supplied heat shield where required.
- Keep the exhaust away from combustible materials.
- Point the exhaust away from doors, windows, vents, and other openings.
- Make sure the exhaust path is not blocked or restricted.

When the heater is positioned outside the space being heated, use the supplied insulated air ducting to route heated air into the space. Keep the air inlet and heated-air outlet clear.

Installation Video: Add a QR code for the Model-S installation video here.

6. QUICK START

Before Starting

- Diesel fuel is in the tank.
- Batteries are properly installed and charged.
- Exhaust is properly installed and vented outdoors.
- Air intake and heated-air outlet are clear.
- The heater is positioned safely.

Start the Heater

1. Turn on the Main Switch. Press and hold for approximately 3 seconds. The LCD screen will illuminate.
2. Start the heater. Press the ON/OFF button. The ON icon will flash during startup.
3. Allow the heater to stabilize. The heater starts at power level 7 by default.
4. Select your heat level. Use the up/down buttons to select a heating level from 1 to 9.

Once operating normally, the built-in generation system supplies operating power and recharges the battery pack.

7. ALTERNATIVE 12V STARTUP

If the internal batteries are unavailable or do not have enough charge to start the heater, the Model-S may be started using the supplied 12V cigarette-lighter connection.

Connect the 12V cable and complete the normal startup procedure. After stable operation, the built-in generation system supplies the power needed for continued operation.

8. CONTROL PANEL

The front control panel is visible below. A dedicated labeled control-panel diagram can be added when available.



Controls

Main Switch: Turns system power on.

ON/OFF: Starts the heater or begins shutdown.

Level Up: Increases heating output.

Level Down: Decreases heating output.

°C/°F: Changes the temperature display.

The display shows heating power level, operating status, temperature, altitude, and system voltage.

9. PROPER SHUTDOWN

WARNING - DO NOT CUT POWER

Do not use the Main Switch to immediately cut power while the heater is running. Always allow the automatic cooldown cycle to finish.

1. Press ON/OFF.
2. The OFF icon will flash.
3. Allow automatic cooldown.
4. The fan will run for approximately 3-5 minutes.
5. Wait until the fan stops and LCD backlight turns off.

Allow hot components to cool completely before handling or storing the heater.

10. COLD-WEATHER OPERATION

- Start with charged batteries.
- Warm extremely cold batteries before startup.
- Use diesel fuel appropriate for the temperature and conditions.
- Keep the air intake and exhaust clear of snow, ice, and other obstructions.
- Inspect the exhaust before each use.

11. BASIC CARE & MAINTENANCE

Before each use:

- Check the exhaust system.
- Check fuel lines and connections.
- Check the air intake and heated-air outlet.
- Look for loose or damaged components.

After use:

- Allow the heater and exhaust to cool.
- Keep the heater clean and dry.
- Do not store the heater with damaged fuel or exhaust components.
- Inspect the heater before the next use.

Note: A detailed manufacturer-approved maintenance schedule was not provided in the source manual.

12. TROUBLESHOOTING

Error	Fault	What To Check
E-1X	Voltage Error	Check battery connection and charge level. Recharge or replace if necessary.
E-2X	Sensor Fault	Check air inlet/outlet for blockages. Make sure the sensor connector is secure.
E-3X	Ignition Plug Failure	Inspect ignition plug for damage. Clean or replace ignition components as required.
E-4X	Fuel Pump Fault	Check the fuel-pump connector and wiring.
E-5X	Blower Fault	Check connector and blower for blockage or rubbing.
E-7X	Ignition Failure	Check fuel level and fuel lines for damage, blockage, leaks, or air ingress.
E-8X	Runtime Flameout	Check fuel level and fuel line for damage, blockage, or air leaks.

13. PACKAGE CONTENTS



- 1 x Mobile diesel heater
- 1 x Silencer
- 2 x Exhaust pipes
- 1 x elbow
- 1 x Inlet air pipe,
- 1 x Outlet air pipe
- 4 x Lithium batteries (Panasonic 2650)

14. SUPPORT

Need help with your Model-S?

Website: <https://houswin.us/>

Installation Video: <https://youtu.be/aTouexjus6w?si=ZvWquUAtxl7VVq1j>

Product Support: wayne@houswin.us

Have your Model-S and purchase information available when contacting support.

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