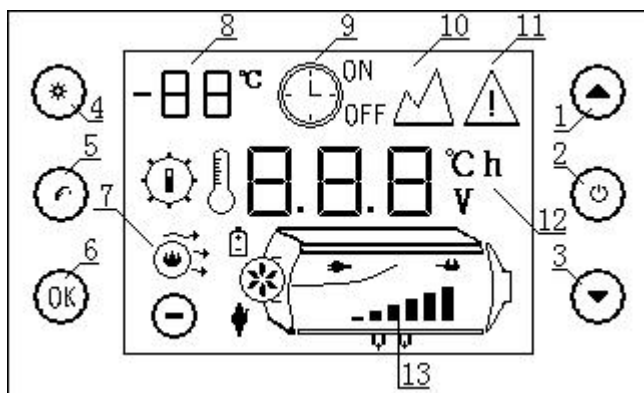


Parking Heater Operation Instructions

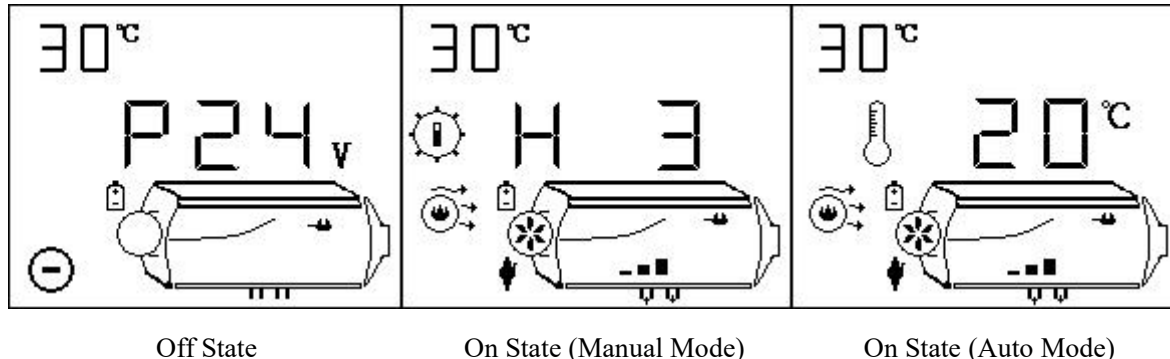
1. Control Panel as Shown Below



1. Up Button; 2. power Button; 3. Down Button; 4. Setting Button; 5. Manual Fuel Pump Button; 6. OK Button; 7. Working Status Indicator; 8. Ambient Temperature Display; 9. Timer Indicator; 10. Plateau Mode Indicator; 11. Fault Indicator; 12. Data/Parameter Display; 13. Main Unit Diagram;

2. Operation

1. On/Off Operation



1) Power-On Operation

In the off state, long-press the "⏻" button for 2 seconds to power on the device, displaying the "On State" as shown above.

2) Power-Off Operation

In the on state, long-press the "⏻" button for 2 seconds to enter the shutdown cooling process, displaying the icon "🌀".

The device will shut down after cooling, displaying the "Off State" as shown above. Do not force power off during cooling! **Direct power off may damage components due to overheating and inability to dissipate heat!** Wait until the

device shows the off state before powering off!

3) Manual Mode Operation

Manual mode has 6 gears (H1-H6), with H6 being maximum power, as shown in the "On State" above. Use the "▲" or "▼" buttons to adjust gears. The main unit diagram shows the current gear via a bar graph.

4) Auto Mode Operation

Auto mode: The above diagram indicates a setting of 20°C. Use the "▲" or "▼" buttons to adjust the temperature value (range: 5-40°C). Long-press the "⚙️" button for 2 seconds to switch between manual and auto modes.

2. Switch Displayed Data on Startup

In the on state, short-press the "OK" button to switch displayed data in the order: Case Temperature -> Operating Voltage -> Current Gear (or Current Set Temperature).

3. Temperature Unit Switching

Long-press the "🔌" + "▲" buttons for 2 seconds to switch between Celsius and Fahrenheit.

4. Manual Fuel Priming Operation

In the off state, press and hold both the "▲" + "▼" buttons or press and hold the "🔌" button alone to manually control the fuel pump. Release the buttons to stop priming. **Use with caution!**

5. Display Bluetooth Number

Short-press the "OK" button to display the last 3 digits of the switch's Bluetooth name. Exit by pressing any button or after 3 seconds.

6. Plateau Mode Operation

Long-press both the "⚙️" + "OK" buttons for 2 seconds to enter Plateau Mode. The icon "⚡" indicates Plateau Mode is active, which reduces the air-fuel ratio to adapt to high-altitude hypoxia. Long-press both buttons again for 2 seconds to exit Plateau Mode. **Use with caution!**

7. Timer On/Off Time Setting

Long-press both the "OK" + "▼" buttons for 2 seconds to enable and enter timer settings, displaying as shown below (indicating a start time of 10:10 with the "🕒" flashing). If the timer function is already enabled, it will be disabled and the "🕒" indicator will turn off.



ON: Indicates start time;

OFF: Indicates stop time;

- 1) Use the "▲" or "▼" buttons to adjust the time value (range: 00.0 – 23.5).
- 2) Press the "⏻" button to switch the digit being adjusted (the corresponding digit will flash).
- 3) Press the "OK" button or wait 15 seconds with no operation to save the settings. If setting the start time, it will switch to setting the stop time; otherwise, exit timer settings.
- 4) Press the "⚙️" button to exit timer settings without saving. If setting the start time, it will switch to setting the stop time; otherwise, exit.
- 5) In non-setting mode, press the "⚙️" button to cycle through the day's timer settings.

After enabling the timer function, the device will automatically turn on at the set start time and off at the set stop time.

8. Clock Synchronization Operation

Long-press the "OK" button for 2 seconds to enter the clock adjustment interface, displaying .

- 1) Use the "▲" or "▼" buttons to adjust the time value (range: 00.0 – 23.5).
- 2) Press the "⏻" button to switch the digit being adjusted (the corresponding digit will flash).
- 3) Press the "OK" button to confirm the time and enter the weekday setting.
- 4) Press the "⚙️" button to skip time adjustment and enter the weekday setting.
- 5) Exit the clock adjustment interface after 10 seconds of no operation.

8.1. Weekday Setting

Digital display shows "EE7"

- 1) Use the "▲" or "▼" buttons to adjust the last digit.
- 2) Press the "OK" button to confirm the weekday and exit the clock adjustment interface.
- 3) Press the "⚙️" button or exit after 10 seconds of no operation.

Bluetooth-enabled devices will automatically synchronize time when connected to the app.

9. Remote Control Pairing

In the off state, long-press both the "⏻" + "▼" buttons for 2 seconds to enter remote control pairing mode as shown below.

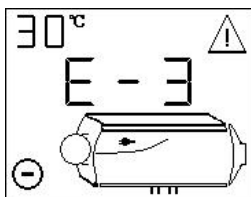


- 1) Use the "▲" or "▼" buttons to set the 3rd digit as the remote control ID (range: 1 - 4, corresponding to 4 remotes).
- 2) After selecting the remote ID, press any button on the remote to complete pairing and exit.
- 3) Short-press the "⚙️" button to exit pairing mode.

Remote control requirements: 433MHz frequency, 24-bit code. Remote control is optional; specify when ordering.

10. Fault Alarm

As shown below, the displayed data is the fault code. Refer to the fault table for meanings, and the corresponding faulty component icon will flash.



***Icons for spark plug, fuel pump, fan, sensor, power supply, etc., will flash to indicate a fault in the corresponding component.**

Usage Guidelines

1. Do not use in environments with high humidity, conductive dust, flammable/explosive gases/dust/materials, corrosive media, strong light exposure, or near high-magnetic, high-voltage, or high-current equipment.
2. Power supply voltage range: DC24V controller (18 - 32V); DC12V controller (9 - 16V). Controllers of different voltages are not interchangeable. Do not use beyond the applicable voltage range.
3. 5kW controller can only be used with 5kW units; 2kW controller with 2kW units.
4. If the controller or external components are damaged, replace them with identical models/specifications by professionals.
5. Do not open the controller casing without authorization.
6. Install and use the device strictly as required under safe conditions.
7. The company is not liable for losses or damages caused by incorrect wiring, short circuits, or damage to external components/wiring.

8. If the unit overheats and the fan fails, cool it quickly by blowing cold air into the combustion air inlet until the temperature drops below 80°C to prevent component damage or fire.

9. Ensure all air ducts are unobstructed (no kinks, pressure, or blockages) during heating to maintain efficiency and normal operation. Blockages cause overheating, reduced efficiency, shortened lifespan, or damage. Use qualified fuel to ensure performance and lifespan.

The company is not liable for losses or damages caused by failure to follow the above installation/usage instructions.

*Combustion points: Cotton/sponge 150°C, paper 130°C, cloth 270°C, diesel 220°C. Hot air outlet can exceed 150°C; exhaust pipe outlet can exceed 270°C.

Fault Table

Fault Code	Cause	Troubleshooting
E-2	Power Voltage Range	Normal range: 24V (18-32V), 12V (9-16V). Check battery/alternator and fuse condition.
E-3	Spark Plug Fault	1) Check spark plug connector for looseness or short circuit to housing. 2) Test spark plug for damage.
E-4	Fuel Pump Fault	Inspect fuel pump wiring/connectors for damage, looseness, oxidation, short circuit, or open circuit.
E-5	High Temperature Alarm (Inlet Air > 50 °C ; Housing > 230°C)	1) Check heating ducts for blockages. 2) Check fan operation. 3) Check temperature sensor.
E-6	Fan Fault	1) Check impeller for jamming. 2) Check connectors for looseness. 3) Check gap between fan magnet and Hall sensor. 4) Check wiring for short/open circuit or motor leakage.
E-7	Communication Fault	Inspect wiring connections.
E-8	Flameout	1) Check for fuel shortage, cold fuel, blocked lines, or stuck pump. 2) Check air intake/exhaust ducts for blockages. 3) Check housing temperature sensor contact and spring tension.
E-9	Sensor Fault	Inspect temperature sensor wiring/connectors for damage/looseness or sensor failure.
E10	Startup Failure	1) Housing temperature too high; failed to cool within

		3 minutes. 2) Exhaust has heavy white smoke: 2.1) Clean/replace spark plug filter if dirty. 2.2) Check fuel pump pressure. 2.3) Check spark plug condition. 3) Exhaust has light white smoke or no smoke: 3.1) Check for fuel shortage, frozen lines, or blockages. 3.2) Check pump for jamming or weak output. 3.3) Check combustion air/exhaust ducts. 3.4) Check spark plug for damage. 3.5) Check internal fan gap. 4) Ignition normal but still reports failure: Check housing temperature sensor contact, spring tension, and sensor condition.
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FCC Warning:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.