

RSAG7.820.7748/ROH HLL-4360WE 222684

Generic Power Supply Board RSAG7.820.7748/ROH HLL-4360WE 222684 Instruction Manual

MODEL: RSAG7.820.7748/ROH HLL-4360WE 222684 FOR HISENSE TV 50R6E

1. Introduction

This instruction manual provides essential information for the safe and correct installation, operation, and maintenance of the Generic Power Supply Board, model RSAG7.820.7748/ROH HLL-4360WE 222684. This board is designed as a replacement part for specific Hisense TV models, including the 50R6E. Please read this manual thoroughly before proceeding with any installation or service to ensure proper functionality and safety.

2. Safety Information

WARNING: Installation of this component should only be performed by qualified technicians. Improper installation can lead to electric shock, fire, or damage to the television and the power supply board itself.

- Always disconnect the television from the main power outlet before attempting any installation, removal, or maintenance.
- Discharge any residual power by waiting several minutes after unplugging the TV before touching internal components.
- Wear anti-static gloves or use an anti-static wrist strap to prevent electrostatic discharge (ESD) damage to sensitive electronic components.
- Handle the board by its edges to avoid touching components directly.
- Ensure all connections are secure and correctly oriented before restoring power.
- **CAUTION:** For continued protection against risk of fire, replace only with a fuse of the same type and rating (e.g., T 4.0A H 250V F801, as indicated on the board).

3. Product Overview

The power supply board (model RSAG7.820.7748/ROH HLL-4360WE 222684) is a critical component responsible for converting AC power from the wall outlet into various DC voltages required by the television's internal circuits. It features multiple transformers, capacitors, and heat sinks to manage power distribution and regulation.

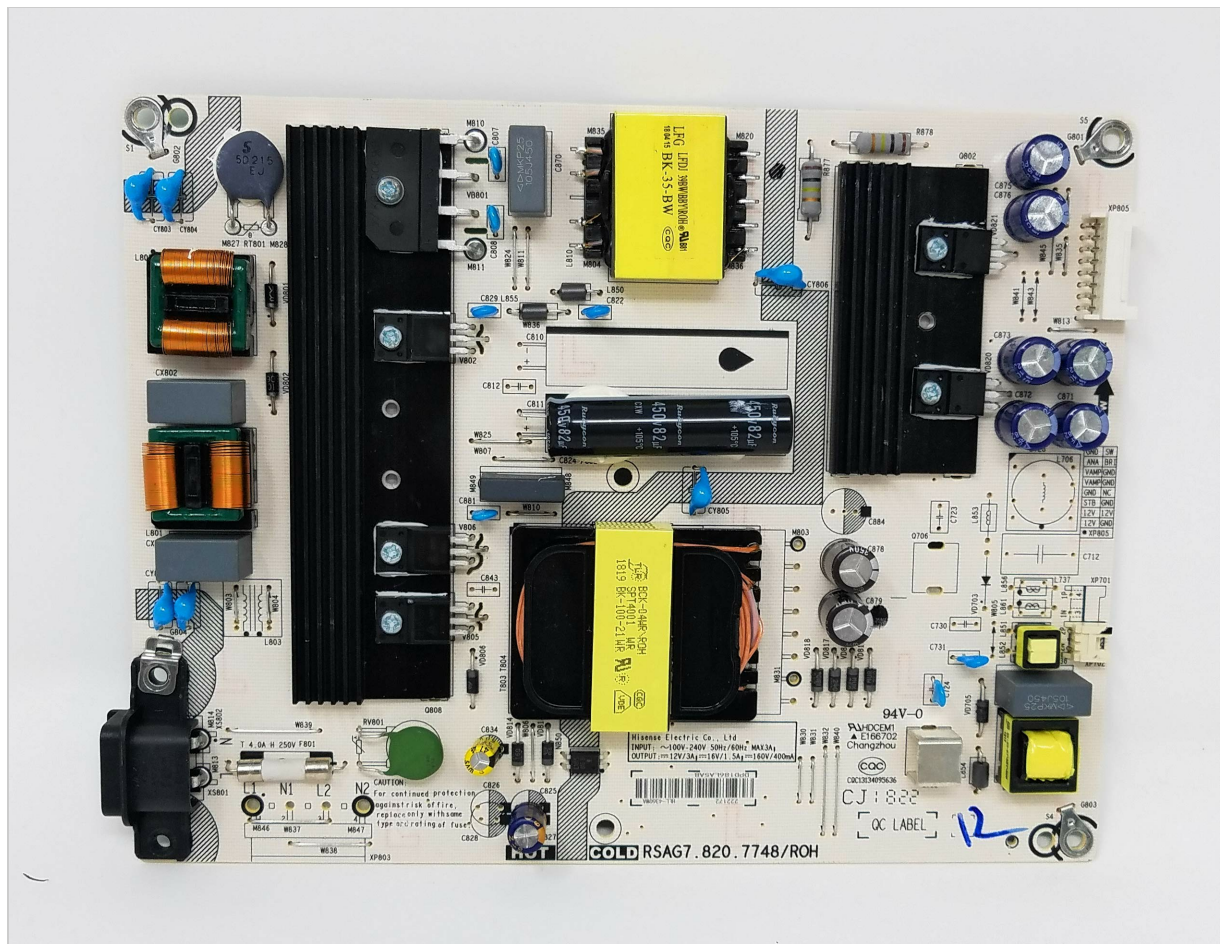


Figure 1: Generic Power Supply Board RSAG7.820.7748/ROH HLL-4360WE 222684. This image displays the complete power supply board, showing various components such as capacitors, transformers, heat sinks, and connectors. Key identifiers like 'RSAG7.820.7748/ROH' and 'HLL-4360WE' are visible on the board.

Key markings on the board include:

- **Model Number:** RSAG7.820.7748/ROH
- **Part Number:** HLL-4360WE 222684
- **Manufacturer:** Hisense Electric Co., Ltd. (as indicated on the board)
- **Input:** ~100V-240V 50Hz/60Hz MAX3A
- **Output:** 12V/3A, 16V/1.5A, 160V/400mA
- **Fuse:** F801 (T 4.0A H 250V)

4. Setup and Installation

This section outlines the general steps for replacing a power supply board. Specific TV models may have slight variations. Refer to your TV's service manual for detailed disassembly instructions.

1. **Prepare the TV:** Disconnect the TV from all power sources and external devices. Place the TV face down on a soft, clean surface to protect the screen.
2. **Remove Back Cover:** Carefully remove the screws securing the TV's back cover. Set the screws aside in an organized manner.
3. **Locate Old Power Board:** Identify the existing power supply board. It is typically the largest board connected directly to the AC input.
4. **Disconnect Cables:** Disconnect all cables connected to the old power board. These usually include the AC input, cables to the main board, and backlight cables. Note their positions or take photos for reference.

5. **Remove Old Board:** Unscrew the mounting screws holding the old power board in place and carefully lift it out.
6. **Install New Board:** Position the new RSAG7.820.7748/ROH HLL-4360WE 222684 power supply board into the TV chassis. Ensure it aligns correctly with the mounting holes.
7. **Secure New Board:** Fasten the new board with the mounting screws. Do not overtighten.
8. **Reconnect Cables:** Reconnect all cables to their corresponding ports on the new power board. Double-check each connection for security and correct orientation.
9. **Test Functionality:** Before reattaching the back cover, temporarily plug in the TV and power it on to verify that it functions correctly. If the TV powers on and displays an image, proceed to the next step. If not, refer to the Troubleshooting section.
10. **Reassemble TV:** Disconnect power again, then carefully reattach the TV's back cover and secure it with all screws.

5. Operating Instructions

Once the power supply board is successfully installed, the television should operate as intended. The power supply board itself does not require user interaction beyond providing stable power to the TV's components.

- Plug the TV's power cord into a working electrical outlet.
- Press the power button on the TV or its remote control.
- Verify that the TV powers on, displays an image, and responds to controls.

6. Maintenance

The power supply board is designed for long-term reliability and generally requires no routine maintenance. To ensure its longevity and optimal performance:

- **Keep Clean:** Ensure the TV's ventilation openings are clear of dust and debris to allow for proper airflow and heat dissipation.
- **Avoid Moisture:** Do not expose the TV to excessive moisture or humidity.
- **Stable Power:** Connect the TV to a stable power source, preferably with surge protection, to prevent damage from power fluctuations.

7. Troubleshooting

If you encounter issues after installing the power supply board, consider the following troubleshooting steps:

Problem	Possible Cause	Solution
---------	----------------	----------

Problem	Possible Cause	Solution
TV does not power on (no indicator light).	Loose power cable, faulty outlet, incorrect board installation, blown fuse on the board.	<ul style="list-style-type: none">◦ Ensure the power cord is securely plugged into both the TV and the wall outlet.◦ Test the outlet with another device.◦ Recheck all cable connections to the power board.◦ Inspect the fuse (F801) on the power board. If blown, replace with an identical type and rating (T 4.0A H 250V).
TV powers on but no picture/backlight.	Backlight cable not connected, faulty backlight circuit, main board issue.	<ul style="list-style-type: none">◦ Verify the backlight cable connection from the power board to the display panel.◦ If the issue persists, further diagnosis may be required by a professional to check the backlight LEDs or main board.
Backlight flickering or unstable picture.	Component variations, minor compatibility issues, or other TV components.	<ul style="list-style-type: none">◦ Ensure all connections are firm.◦ While this board is a compatible replacement, slight variations in component specifications might rarely lead to subtle visual effects. If noticeable, professional evaluation is recommended.

If these steps do not resolve the issue, it is recommended to seek assistance from a qualified television repair technician.

8. Specifications

Model Number	RSAG7.820.7748/ROH HLL-4360WE 222684
Compatibility	Hisense TV 50R6E (and other compatible models)
Input Voltage	~100V-240V AC, 50Hz/60Hz, MAX3A
Output Voltages	12V/3A, 16V/1.5A, 160V/400mA
Fuse Rating	T 4.0A H 250V (F801)
Package Dimensions	Approximately 4 x 4 x 4 inches
Item Weight	Approximately 1 pound

9. Warranty and Support

This power supply board typically comes with a 30-day warranty from the date of purchase, covering defects in materials and workmanship. Please retain your proof of purchase for warranty claims. For technical support or warranty inquiries, please contact the seller or your authorized service provider. Do not attempt to repair the board yourself, as this may void the warranty and pose safety risks.

