

GV 350

GV 350 Galvanic High-Volt Pulsed Stimulator User Manual

Model: 350

1. INTRODUCTION

The GV 350 Galvanic High-Volt Pulsed Stimulator is designed for therapeutic applications. It delivers monophasic twin peak waveforms with adjustable output intensity, operating in both constant and alternate stimulation modes. This device features two active and one dispersive output, along with a patient timer for precise treatment duration. Its primary applications include pain management, reduction of inflammation and muscle spasms, improvement of blood flow, enhancement of range of motion, and support for soft tissue repair and wound healing.



Figure 1: The GV 350 Galvanic High-Volt Pulsed Stimulator. This image shows the compact, light-colored unit with control knobs and electrode ports on the front panel.

2. SAFETY INFORMATION

Please read all instructions carefully before using the GV 350 Stimulator. Failure to follow safety guidelines may result in injury or device malfunction.

- Consult a healthcare professional before use, especially if you have pre-existing medical conditions, are pregnant, or have a pacemaker.
- Do not use the device near water or in damp environments.
- Keep the device out of reach of children.
- Use only accessories and electrodes approved by the manufacturer.
- Discontinue use immediately if you experience any discomfort, pain, or adverse reactions.
- Do not apply stimulation over open wounds, irritated skin, or areas with decreased sensation.
- Ensure the device is turned off before connecting or disconnecting electrodes.

- Regularly inspect electrodes and cables for damage. Replace if necessary.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- GV 350 Galvanic High-Volt Pulsed Stimulator unit
- Power adapter (if applicable, not explicitly listed but implied for an electronic device)
- Electrode cables
- Electrodes (starter set)
- User Manual

4. PRODUCT OVERVIEW

4.1 Key Features

- Monophasic twin peak waveforms for effective stimulation.
- Adjustable output intensity from 0 to 350V.
- Two operational modes: Constant and Alternate (5 seconds ON, 5 seconds OFF) stimulation.
- Two active outputs and one dispersive output for versatile electrode placement.
- Integrated patient timer for precise treatment duration.
- Adjustable pulse rate from 1 to 100Hz.
- Low battery indicator for timely power management.

4.2 Controls and Indicators

Refer to Figure 1 for the location of controls and indicators.

- **Intensity/Volts Knob:** Adjusts the output voltage (0-350V).
- **Rate Knob:** Adjusts the pulse rate (1-100Hz).
- **Mode Switch:** Selects between Constant and Alternate stimulation.
- **Timer Knob:** Sets the desired treatment duration.
- **Output Ports:** Two active (typically red/black) and one dispersive (typically black) ports for electrode connection.
- **Low Battery Indicator:** Illuminates when battery power is low, indicating a need for replacement or recharging.

5. SETUP

5.1 Unpacking and Inspection

1. Carefully remove the GV 350 unit and all accessories from the packaging.
2. Inspect the device for any visible damage. Do not use if damage is observed.
3. Retain packaging for future storage or transport.

5.2 Power Connection

1. Ensure the device is switched off before connecting power.
2. If battery-operated, ensure fresh batteries are installed. Observe the low battery indicator.
3. If using an AC adapter, connect it to the device's power input and then to a suitable electrical outlet.

5.3 Electrode Placement

1. Clean and prepare the skin area where electrodes will be placed.
2. Attach the electrode cables to the appropriate active and dispersive output ports on the device.
3. Connect the electrodes to the cables.
4. Apply the electrodes firmly to the skin, ensuring good contact. Consult a healthcare professional for specific electrode placement guidelines for your condition.

6. OPERATING INSTRUCTIONS

6.1 Powering On/Off

- To power on, turn the Intensity/Volts knob clockwise from the "OFF" position.
- To power off, turn the Intensity/Volts knob counter-clockwise to the "OFF" position.

6.2 Mode Selection

- Use the Mode Switch to select either **Constant** or **Alternate** stimulation.
- **Constant Mode:** Delivers continuous stimulation for the set duration.
- **Alternate Mode:** Delivers stimulation in cycles of 5 seconds ON and 5 seconds OFF.

6.3 Intensity Adjustment

- With the device on and electrodes applied, slowly turn the **Intensity/Volts** knob clockwise to increase the output intensity.
- Adjust the intensity to a comfortable yet effective level. Avoid setting it too high, which may cause discomfort.

6.4 Pulse Rate Adjustment

- Use the **Rate** knob to adjust the pulse frequency from 1 to 100Hz.
- The optimal pulse rate may vary depending on the therapeutic goal. Consult a healthcare professional for guidance.

6.5 Timer Setting

- Set the desired treatment duration using the **Timer** knob. The device will automatically shut off once the set time has elapsed.

6.6 Treatment Session

1. Ensure all settings (Mode, Intensity, Rate, Timer) are configured as desired.
2. Begin the treatment. Monitor your comfort level throughout the session.
3. If any discomfort occurs, reduce the intensity or stop the treatment.
4. Once the timer completes, the device will power off. If manually stopping, turn the Intensity/Volts knob to "OFF".
5. Carefully remove electrodes from the skin.

7. MAINTENANCE

7.1 Cleaning

- Always turn off and disconnect the device from power before cleaning.

- Wipe the exterior of the unit with a soft, damp cloth. Do not use abrasive cleaners or immerse the device in water.
- Clean electrodes according to their specific instructions.

7.2 Storage

- Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- Keep electrodes and cables neatly stored to prevent damage.

7.3 Battery Replacement

- When the low battery indicator illuminates, replace the batteries promptly to ensure optimal performance.
- Refer to the battery compartment for the correct battery type and polarity.
- Dispose of used batteries according to local regulations.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Low or dead batteries; power adapter not connected; device faulty.	Replace batteries; ensure power adapter is securely connected; contact support if problem persists.
No stimulation felt.	Intensity too low; electrodes not properly applied; faulty cables/electrodes.	Increase intensity gradually; ensure good electrode contact; check cables and electrodes for damage and replace if necessary.
Low battery indicator is on.	Batteries are low.	Replace batteries immediately.
Irregular or inconsistent stimulation.	Poor electrode contact; damaged cables; internal fault.	Re-apply electrodes; inspect and replace cables; contact support.

9. SPECIFICATIONS

Feature	Detail
Model Number	350 (Internal Item Number: 10833)
Output Intensity	0 - 350V (Adjustable)
Waveform	Monophasic Twin Peak
Modes	Constant, Alternate (5s ON / 5s OFF)
Outputs	Two Active, One Dispersive
Pulse Rate	1 - 100Hz (Adjustable)
Timer	Patient Timer for desired treatment periods

Feature	Detail
Dimensions	10.16 x 7.4 x 2.72 inches
Weight	1.1 Pounds
Manufacturer	Hartmann
Date First Available	April 5, 2018

10. WARRANTY AND SUPPORT

Specific warranty information for the GV 350 Galvanic High-Volt Pulsed Stimulator is not provided in the product details. Please refer to your purchase documentation or contact the retailer for warranty terms and conditions.

For technical support, service, or inquiries regarding your device, please contact the manufacturer, Hartmann, or your authorized distributor. Contact information can typically be found on the product packaging or the manufacturer's official website.

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