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# Instruction Manual

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## peqPOWER 250

### 250 Volt Power Supply



peqlab 

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## WARNING

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### Federal Communications Commission Advisory

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their expense. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## SAFETY INFORMATION

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### Avoiding Electrical Shock

The peqPOWER 250 Volt Power Supply produces up to 3 A or 250 voltage outputs which are electrically isolated from ground to reduce the risk of electrical shock to the user. Follow the guidelines below to ensure safe operation of the unit.

The peqPOWER 250 Volt Power Supply has been designed for use with electrophoresis cells with shielded banana plugs thus minimizing any potential shock hazard to the user. Always use gel box systems that are compatible with the Power Supply, have been designed for your specific applications, and are suitable for the voltage and current range of the Power Supply. PEQLAB recommends against the use of gel box systems and / or power leads that have unshielded banana plugs.



#### To avoid electrical shock:

1. NEVER connect or disconnect wire leads from the power jacks when the red indicator light at the Start/Stop key is on or when "RUNNING" is displayed on the screen.
2. WAIT at least 5 seconds after stopping a run before handling output leads or connected apparatus.
3. ALWAYS make sure that hands, work area, and instruments are **clean** and **dry** before making any connections or operating the power supply.
4. ONLY connect the power supply to a properly grounded AC outlet.

### Avoiding Damage to the Instrument

1. For proper ventilation, leave at least 10 cm of space behind the instrument, and at least 5 cm of space on each side.
2. Do not operate the power supply in high humidity environments (> 95 %), or where condensation may occur.
3. To avoid condensation after operating the power supply in a cold room, wrap the unit in a plastic bag and allow at least 2 hours for the unit to equilibrate to room temperature before removing the bag and operating the unit.

### Symbols



Used on the peqPOWER 250 Volt Power Supply to indicate an area where a potential shock hazard may exist.

## PRODUCT CONTENTS

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### Types of Products

This manual is supplied with the following products:

Cat. No. 55-E250-230V      peqPOWER 250 Volt Power Supply (230 VAC, 50-60 Hz)

Cat. No. 55-E250-110V      peqPOWER 250 Volt Power Supply (110 VAC, 50-60 Hz)

### Product Contents

Component	Quantity
250V Power Supply	1 each
Instruction Manual	1 each
Extra Fuse	1 each
Power Cord	1 each
Warranty Card	1 each

### Upon Receiving the Instrument

Immediately upon arrival, please check carefully that the shipment is complete and has not been damaged in transit. For missing parts or to report any kind of damage, please contact PEQLAB (see 'TECHNICAL SERVICE AND ORDERING INFORMATION'). Please retain all packaging materials until the delivery has been completely checked, since this will speed up the return of goods if required and reduce environmental impact. Any form of returns, replacements or credit notes must be agreed in advance by PEQLAB.



To ensure safe, reliable operation, always operate the peqPOWER 250 Volt Power Supply in accordance with the manufacturer's instructions. Always wear protective gloves and safety glasses when working in a laboratory environment.

## PRODUCT SPECIFICATIONS

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### peqPOWER 250 Volt Power Supply Specifications

<b>Input Power (Switchable)</b>	115 VAC, 50-60 Hz 230 VAC, 50-60 Hz
<b>Fuses</b>	One 4 A / 250 V, one extra fuse is provided
<b>Output power max</b>	300 watts
<b>Output voltage range</b>	5 ~ 250 V
<b>Output current range</b>	10 mA ~ 3 A
<b>Timer</b>	~ 99.99 per step
<b>Terminal pairs</b>	4:4 positive voltage and 4 negative voltage
<b>Operating Modes</b>	
<b>Constant Voltage</b>	1 V step
<b>Constant Current</b>	1 mA step
<b>Constant Power</b>	1 watt step
<b>Crossover</b>	Auto
<b>Display type</b>	LCD Graphic type
<b>Display size</b>	53.64 x 15.64 mm (W x H)
<b>Pause function</b>	Yes
<b>Safety feature</b>	No Load Detection Load Change Detection Overload detection Ground Leak Auto Restart
<b>Programmable</b>	Yes Store file no.: 10 Program: up to 10 steps
<b>Stackable</b>	Yes
<b>Housing material</b>	Flame retardant ABS
<b>Housing size</b>	200 x 300 x 90 mm (W x D x H)
<b>Operating temp.</b>	0 – 40 °C
<b>Operating environment</b>	100 % RH, 75 kPa-106 kPa, Altitude not to exceed 2000 meters
<b>Weight</b>	2.5 kg
<b>Certifications</b>	CE; TUV; UL
<b>Warranty</b>	3 years

## OVERVIEW

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The peqPOWER 250 Volt Power Supply is a microprocessor-controlled power supply designed to meet most electrophoresis needs in a single easy to use unit. The power supply's small foot print and stacking feature conserve valuable bench space. The power supply is capable of running constant voltage, constant current or constant power applications and programming mode concurrently. This instrument is ideal for DNA/RNA electrophoresis, SDS-PAGE, native PAGE, and IEF applications. With four sets of output jacks that can be used simultaneously, the peqPOWER 250 Volt Power Supply is designed to run applications at maximal power and efficiency. The peqPOWER 250 Volt Power Supply offers three modes: Constant Voltage, Constant Current and Constant Wattage Mode. This manual describes the setup and operation of peqPOWER 250 Volt Power Supply including important information on safety and maintenance of the unit.

### Features of the peqPOWER 250 Volt Power Supply

Important features of the peqPOWER 250 Volt Power Supply are listed below:

- Constant Voltage, Power or Current
- Capable of running multiple electrophoresis units
- Large LCD display with clear menu prompts for easy use
- Programming capabilities for limiting voltage (V), current (mA), power (W).
- Four sets of output terminals
- Capability to specify run durations by time or volt-hours

### Purpose of the Manual

This manual includes the following information:

- Safety information
- Instructions for setting up the instrument
- Operating instructions
- Guidelines for repair and maintenance

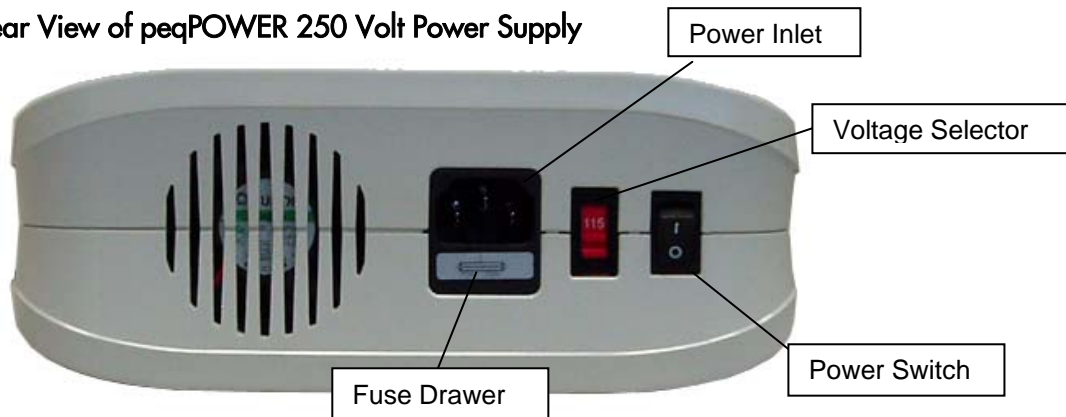
Follow the recommendations and guidelines provided in this manual for your safety, best results, and optimal performance of your peqPOWER 250 Volt Power Supply.

## Description of Buttons and Switches

### Front View of peqPOWER 250 Volt Power Supply




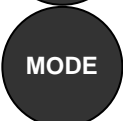




### Rear View of peqPOWER 250 Volt Power Supply



## OPERATIONAL KEYS

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Key	Functions
	<b>STOP</b> key: Used to stop operation from the <b>Running Screen</b>
	<b>START/PAUSE</b> key: Used to start operation / temporarily interrupt power to an operation in progress without terminating electrophoresis and to resume power after pausing without resetting the timer
	<b>CONSTANT</b> key: Used to set up constant voltage or current values
	<b>MODE</b> key: Used to choose either Constant Voltage, Constant Current or Constant Wattage mode
	<b>Down Arrow</b> key: Used to move cursor down between parameters and to decrease numeric values
	<b>Up Arrow</b> key: Used to move cursor up between parameters and to increase numeric values

## GETTING STARTED

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### Installing the peqPOWER 250 Volt Power Supply

1. Check the label located near the AC inlet to ensure that the unit is compatible with locally provided voltage.
2. Place the peqPOWER 250 Volt Power Supply on a level laboratory bench. Keep the area around the power supply clear to ensure proper ventilation of the unit.
3. **For your safety:** Position the unit properly such that the **On-Off** switch and the AC inlet located on the rear of the unit are easily accessible.
4. Ensure the AC power switch is in the **Off** position.
5. Attach the power cord to the AC inlet. Use only properly grounded AC outlets and power cords.
6. Connect the leads from the electrophoresis unit; insert the red lead (+) into the red output jack, and the black lead (-) into the black output jack.



## IMPORTANT GUIDELINES

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### Introduction

The important guidelines for operating the peqPOWER 250 Volt Power Supply are provided in this section. We recommend that you carefully review these guidelines before operating the instrument.

#### Important

For best results, do **NOT** use the peqPOWER 250 Volt Power Supply at its maximum electrical load limits. Variations in buffer conditions can result in exceeding the power supply's maximum voltage, current, or power output capacity and produce undesirable variations in electrophoretic separations.

### General Operating Instructions

Follow the instructions below to operate the peqPOWER 250 Volt Power Supply.

- Turn on the peqPOWER 250 Volt Power Supply using the power switch on the rear of the instrument. Upon start-up, the **current settings** appear on the screen.
- Use the **START/PAUSE** and **STOP** keys and output jacks for applications.
- Use the **CONSTANT** key to set up operation mode.

### Recommendation

The duration of electrophoresis can be defined in time (hours/minutes). When using this or any electrophoresis product, we recommend that you adhere to the protocols given in the electrophoresis product manuals, and durations, specified in time.

#### Important

For best results, follow these important guidelines when running multiple gels and electrophoresis units concurrently.

For example:

- Avoid running samples of widely differing salt concentrations or sample buffers at the same time or on the same gel.
- Properly prepare and desalt your samples.

**Note:** Variations in conductivity due to differences in buffer salt concentrations can affect the run of all the samples run at the same time.

## OPERATIONAL MODES

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### Introduction

The peqPOWER 250 Volt Power Supply is designed to operate under different modes, **Constant mode** or **Programming Mode**, depending upon your electrophoresis needs.

Use the **Constant Voltage, Constant Power or Constant Current Operation** for applications that require only one specific voltage limit, current limit, and power limit continuously during the entire duration of electrophoresis.

### Start-up

On power up use the ▼ ▲ arrow key to choose the operational Mode (**Constant Mode** or **Program Mode**), then press **Mode** to select.

On the Display Screen:

- The controlling value (Volts, Amp or Watts) is displayed on the left-top side of the display screen.
- The Timer is the first line on the right-top, and the other values (Volts, Amp or Watts) are displayed in the second and third line on the right side of the display screen.

### Constant Operation Protocol

Instructions for operating the peqPOWER 250 Volt Power Supply in the **Constant Operation** are provided in this section. The **Constant Voltage, Current or Power Mode** allow you to specify a voltage limit, current limit and power limit to be used during the entire duration of electrophoresis. Review the guidelines provided in this manual before starting electrophoresis using the peqPOWER 250 Volt Power Supply.

A basic **Constant Voltage, Current Mode or Constant Power** operating procedure of the peqPOWER 250 Volt Power Supply is provided below. We recommend reading the guidelines provided in this manual for best results before starting an operation.

1. Use the power switch on the rear side of the instrument to turn on the peqPOWER 250 Volt Power Supply. On Display Screen **Constant Mode** and **Program Mode** will appear.
2. With the Constant Mode highlighted press the **Mode** key
3. Use the Mode Key to navigate to needed parameter (Volt, Amp, or Wat)
4. Press the **CONSTANT** key to select, **Constant Voltage Operation, Constant Current Operation or Constant Power Operation** from the Display Screen.
5. Use the ▼ ▲ arrow keys to set either voltage (VOLT) or current (AMP) or power (WAT) to the appropriate values.
6. Use the **Mode** key to select TIME and use ▼ ▲ arrow key to set the time (hours/minutes) to specify the duration of the electrophoresis.
7. Press **START/PAUSE** key to start electrophoresis.
8. Press the **START/PAUSE** key again to temporarily interrupt power to ongoing electrophoresis without terminating the operation along with LED flashing.
9. Press the **STOP** key to stop electrophoresis.

10. If the parameters need to be changed during the run you must stop electrophoresis by pressing the **Mode** key. Enter the changes and then press **Start/Stop** once again to restart your operation.

**Note:** After stopping and restarting an operation, the timer resets to selected time and does not take into account the time that electrophoresis was in progress before it was stopped.

## Basic Programming Protocol

Instructions for operating the peqPOWER 250 Volt Power Supply in the **Programming Mode** are provided in this section. The **Programmable Mode** allows you to vary levels in voltage (V), current (mA), and power (W) during specified periods of time as discrete changes (STEP) for up to 10 steps, depending upon your electrophoresis needs.

A basic **Programmable Mode** operating procedure of the peqPOWER 250 Volt Power Supply is provided below. We recommend reading the guidelines provided in this manual for best results before starting an operation.

Selecting a program:

1. Select Program Mode by scrolling down using the ▼ key
2. When highlighted press **Mode** key
3. Select file number using the ▼ ▲ arrow keys
4. When file number is located press the **Mode** key
5. Select the number of steps by using the ▼ ▲ arrow keys
6. To enter the parameters of the run press the **Mode** key
7. Voltage will appear on the display to enter voltage press **Mode** key
8. To change voltage, use the ▼ ▲ arrow keys.
9. Select Amperage or Watts by pressing the **Mode** key until desired parameter is flashing.
10. Increase or decrease the value by using the ▼ ▲ arrow keys
11. To set the time in hours press the **Mode** key
12. Increase or decrease the value by using the ▼ ▲ arrow keys
13. Select the **Mode** key again to select minutes.
14. Increase or decrease the value by using the ▼ ▲ arrow keys
15. Repeat 6 thru 14 above to program successive steps.

Viewing a Program

1. Select the file number using the ▼ ▲ arrow keys when highlighted press the **Mode** key.
2. Press the **Mode** key 3 more times to advance to the programming.
3. If multiple steps use the **Mode** key to advance through the program to the next step.

Editing a program

1. When a file is selected the parameters can be edited by the **Mode** button
2. When the parameter is selected, it will flash. Use the ▼ ▲ arrow keys to either increase or decrease values.

3. Press the **Mode** key to migrate to the next parameter.
4. When the parameter is selected use the **▼ ▲** arrow keys to increase or decrease the values.

## CHOOSING LIMITING PARAMETER SETTINGS

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### Introduction

The peqPOWER 250 Volt Power Supply is capable of operating at limiting Voltage, or limiting Current or limiting Power. We recommend operating the peqPOWER 250 Volt Power Supply at limiting voltage for most applications. See below for more details.

### Voltage Limiting

For most electrophoresis methods resistance increases throughout the run. Limiting the voltage provides the following advantages:

- Current and power decrease throughout the run, providing an improving margin of safety over time.
- The same voltage setting can be used regardless of the number or thickness of gels being electrophoresed.

### Current Limiting

Discontinuous buffer systems and, to a lesser extent, continuous systems increase resistance during the run. If you use the current limiting setting on the peqPOWER 250 Volt Power Supply, the voltage will increase as resistance increases to satisfy Ohm's law ( $V=I \cdot R$ ). If no voltage limit is set and a local fault condition occurs, such as a poor connection, very high local resistance may cause the voltage to increase to the maximum capacity of the power supply. This may lead to local overheating and damage to the electrophoresis cell or create unsafe conditions. When operating under constant current conditions, set a voltage limit on the power supply at or slightly above the maximum expected voltage.

### Power Limiting

Power  $P$  is a function of voltage  $V$  and current  $I$   $P=I \cdot V$ . If voltage is increased power will also be increased depending on the gel system, resistance  $R$  should be a constant. Power will be reflected by the heat generated during a gel run. The power limiting function may be used when running sequencing gels to remove the APS from the wells and to heat the gel to an optimal temperature for DNA separations.

## TROUBLESHOOTING

Review the information in the table below to troubleshoot operating problems.

Problem	Cause	Solution
The LCD screen remains blank and the fan does not run when the power is turned on	AC power cord is not connected	Check AC power cord connections at both ends. Use the correct cords.
	The fuse has blown	Replace the fuse
Operation stops with alarm The screen displays "NO LOAD"	1. Electrophoresis leads are not connected to the power supply.	1. Check the connections to the power supply and on your electrophoresis cell to make sure the connection is intact; check condition of wires in electrophoresis unit.
	2. The electrophoresis unit(s), is not connected.	2. Close the circuit by reconnecting the cables.
	3. There is a broken circuit in the electrophoresis cell	3. Press <b>START/PAUSE</b> to restart the run.
	4. High resistance due to tape left on a pre-cast gel	4. Correct the condition by making sure the tape is removed from the pre-cast gel.
	5. Incorrect buffer concentration, or incorrect buffer volumes in the electrophoresis cell	5. Make sure buffers are prepared correctly, and the recommended volume of buffer is added to the electrophoresis unit.
	6. High voltage application is set to run on a very low current	6. Change current setting.
Operation stops with alarm: Display shows "OVER VOLTAGE"	Circuit is interrupted	1. Verify that the running buffer is correct. 2. Verify the all cables are attached correctly 3. Turn the Power switch off and on again; restart application. 4. If you cannot restart the instrument, turn off the power, disconnect the power cord from the outlet, and contact Technical Service.
Operation stops with alarm: Display shows "LEAKAGE"	Ground leak detected during run	1. Check the electrophoresis system for improper grounding. 2. Restart the power supply by turning the Power switch off and on.
Operation stops with alarm: Display shows "OVER TEMP"	Power supply is overheating	1. Turn off power supply. Check for sufficient airflow around the power supply fan. After cooling down, restart the power supply. 2. If you cannot restart the instrument, turn off the power, disconnect the power cord from the outlet, and contact Technical Service.

## OPERATIONAL ELECTRICAL PARAMETERS

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### Power Considerations

Electrophoresis is the migration of a charged particle under the influence of an electrical field. The power supply output parameters voltage, current and power are related by the following two equations:

Voltage (V) = Current (I) x Resistance (R); ( $V=I \cdot R$ )

Power (P) = Current (I) x Voltage (V); ( $P=I \cdot V$ )

### Resistance

Resistance of the assembled electrophoresis cell is dependent on the conductivity of the gel buffer, the thickness of the gel, and the number of gels being run. Although the resistance is determined by the gel system, the resistance can vary over the course of an electrophoretic separation. For instance, in the Tris-Glycine buffer system, the fast moving, highly conductive chloride ions in the gel are gradually replaced by the slower moving, less conductive glycine ions from the running buffer as the gel runs. As a result, the resistance of the gel increases as the chloride/glycine front moves down the gel, and the current decreases.

### Voltage

The velocity with which an ion moves in an electric field will vary in proportion to the field strength (volts per unit distance). The higher the voltage the faster an ion will move.

### Current

Current is a function of the number of ions passing a given cross-section of the circuit at a given time. For a given gel/buffer system, at a given temperature, current will vary in proportion to the field strength (voltage) and/or cross-sectional area (number and/or thickness of the gels). Ions in solution and at a given voltage will move faster as the temperature increases, increasing current.

### Power

The power in Watts, or the rate of heat generated by the system, is directly proportional to voltage and current ( $P=I \cdot V$ ).

## COMMON ERRORS FOUND WITH ELECTROPHORESIS POWER SUPPLIES

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### No load

- The electrophoresis system is not connected to the power leads, check the power leads
- The electrophoresis system has a short, the Pt wire is broken or the banana connectors are damaged
- Buffer concentration too low
- Buffer volume too low
- Short in power cord
- Current has dropped below acceptable rating (10 mA)

## Short circuit

- Load exceeds 3000 mA
- Blown fuse in the power supply
- Incorrect input voltage (check input voltage switch near power inlet)

## Change in load

- Electrophoresis systems were added or removed during a run
- Buffer leaking in a connected system
- Excessive temperature increase
- Excessive buffer evaporation
- Loose connection in a connected system
- Amperage set to low

## Change in constant mode

- Voltage changes to amperage
  - Amperage set too low. Ceiling hit and constant mode changed from voltage to amperage. Increase amperage to 3000 mA.
- Amperage changes too voltage
  - Voltage set to low. Ceiling hit and constant mode changed from amperage to voltage. Increase voltage to 250 volts

The 250 volt system has automatic cross over, set voltage or amperage, and preset wattage. During the electrophoresis process only one parameter is limiting at a time. The limiting parameter, together with the conductivity in the electrophoresis system, and the values for the other parameters determine the maximum output.

## REPAIR AND MAINTENANCE

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### Introduction

The peqPOWER 250 Volt Power Supply requires no periodic maintenance program with the exception of an occasional dry wipe-down of the instrument.

### Encountering Problems

1. Check the troubleshooting section.
2. Call Technical Service.
3. If the unit must be shipped back for repair, contact PEQLAB for a decontamination form and shipping instructions.

### Cleaning

Device and output jacks must be always clean. Before using any cleaning or decontamination methods except those recommended by the manufacturer, check with the manufacturer that the proposed method will not damage the equipment. To clean the centrifuge use a damp cloth and a mild, non-corrosive detergent (ph < 8). After cleaning, ensure all parts are dried thoroughly before attempting to operate the unit. Do not immerse the centrifuge in liquid or pour liquids over it.

## Disinfection

In case disinfection gets necessary, clean the system with 70 % ethanol or IPA. After cleaning, ensure all parts are dried thoroughly before attempting to operate the unit. Do not immerse the centrifuge in liquid or pour liquids over it.

Before using any cleaning or decontamination methods except those recommended by the manufacturer, check with PEQLAB that the proposed method will not damage the equipment..

## Replacing the Fuse

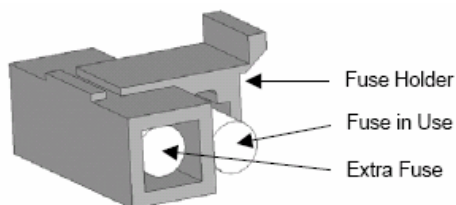
For additional fuses, contact PEQLAB's Technical Service.

To replace the fuse:

1. Turn off the main power switch at the rear of the peqPOWER 250 Volt Power Supply and detach the power cord from the rear of the peqPOWER 250 Volt Power Supply.
2. Open the fuse compartment located inside the Power Entry Module by inserting a small flat blade screwdriver into the slot below the ON/OFF switch. Turn the screwdriver to gently pry open the fuse compartment.

**Note:** The fuse compartment will not open with the power cord in place.

3. Pull the fuse holder out of the compartment and inspect the fuse. If the fuse is burned or there is a break in the fuse element, replace the fuse with an identical type of fuse (4A/250V) as provided in the fuse holder (see figure below).
4. Place the fuse holder back into the compartment.
5. Snap the cover closed.





## TECHNICAL SUPPORT AND ORDERING INFORMATION

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This manual is supplied with the following products:

Product	Outputs	Voltage	Current	Power	Cat. No.
peqPOWER 250 V (230 V)	4	250	3000 mA	300 W	55-E250-230V
peqPOWER 250 V (110 V)	4	250	3000 mA	300 W	55-E250-110V

Also available from PEQLAB are the following power supplies:

Product	Outputs	Voltage	Current	Power	Cat. No.
peqPOWER 300 V (230 V)	4	300	500 mA	90 W	55-E300-230V
peqPOWER 300 V (110 V)	4	300	500 mA	90 W	55-E300-110V

For technical questions and more detailed information on PEQLAB's products please visit [www.peqlab.com](http://www.peqlab.com) to find the respective contact person.

Please have the unit's serial number (located on the bottom panel of the instrument) available when calling. Should an item require return to PEQLAB for service, a decontamination form must be completed first by the user. Items sent without decontamination form will not be accepted.

All returns must be pre-approved by PEQLAB!

## WARRANTY

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PEQLAB Biotechnologie GmbH warrants that this product will be free from defects in material and workmanship for a period of three (3) years from date of purchase. If a defect is present, PEQLAB will, at its option, repair, replace, or refund the purchase price of this product at no charge to you, provided it is returned during the warranty period. This warranty does not apply if the product has been damaged by accident, abuse, misuse, or misapplication, or from ordinary wear and tear.

For your protection, items being returned must be insured against possible damage or loss. This warranty shall be limited to the replacement of defective products. IT IS EXPRESSLY AGREED THAT THIS WARRANTY WILL BE IN LIEU OF ALL WARRANTIES OF FITNESS AND IN LIEU OF THE WARRANTY OF MERCHANTABILITY.

For research use only. Not intended for any animal or human therapeutic or diagnostic use.

## EQUIPMENT DISPOSAL

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This equipment is marked with the crossed out wheeled bin symbol to indicate that this equipment must not be disposed of with unsorted waste.

Instead it's your responsibility to correctly dispose of your equipment at lifecycle -end by handling it over to an authorized facility for separate collection and recycling. It's also your responsibility to decontaminate the equipment in case of biological, chemical and/or radiological contamination, so as to protect from health hazards the persons involved in the disposal and recycling of the equipment.

For more information about where you can drop off your waste of equipment, please contact your local dealer from whom you originally purchased this equipment.



By doing so, you will help to conserve natural and environmental resources and you will ensure that your equipment is recycled in a manner that protects human health. Thank you.

**NOTES**

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Creating the future together.