

Pyramid PS12KX.5

Pyramid Universal Compact Bench Power Supply PS12KX.5 Instruction Manual

1. INTRODUCTION

This manual provides detailed instructions for the safe and efficient operation of your Pyramid Universal Compact Bench Power Supply, model PS12KX.5. This linear regulated power supply is designed to convert 115V AC input to a constant 13.8V DC output, providing up to 10 amps continuous and 12 amps surge current. It is suitable for various applications including powering cellular phones, CB radios, scanners, and HAM radios.



Image 1.1: Front view of the Pyramid PS12KX.5 Bench Power Supply.

For a visual overview of the product, please watch the following video:

Video 1.1: Official product overview of the Pyramid Universal Compact Bench Power Supply.

2. IMPORTANT SAFETY INSTRUCTIONS

- **Read all instructions:** Before operating the power supply, read and understand all safety and operating instructions.
- **Indoor use only:** This unit is designed for indoor use in dry locations. Do not expose it to rain or moisture.
- **Proper ventilation:** Ensure adequate ventilation around the unit. Do not block ventilation openings. The built-in cooling fan requires clear airflow.
- **Power source:** Connect the power supply only to a 115V AC, 60Hz outlet.
- **Grounding:** Ensure the power cord is properly grounded.
- **Avoid overloading:** Do not exceed the rated output current of 10 amps continuous or 12 amps surge. Overloading can cause damage to the unit and connected devices.

- **Short circuit protection:** The unit features electronic overload and short circuit protection. In case of a short circuit, the unit will automatically protect itself. Remove the short and cycle the power to reset.
- **Temperature:** Do not operate the unit in excessively hot environments. The internal cooling fan helps manage temperature.
- **Servicing:** Do not attempt to service this unit yourself. Refer all servicing to qualified service personnel.

3. PRODUCT OVERVIEW

3.1 Front Panel



Image 3.1: Detailed view of the front panel.

- **NORMAL LED (Green):** Illuminates when the power supply is operating normally.
- **PROTECTION LED (Red):** Illuminates when the unit enters protection mode due to overload, short circuit, or over-temperature.
- **OUTPUT Terminals:** Red (+) for positive, Black (-) for negative DC output. These are screw-type terminals for secure connections.
- **POWER Switch:** Toggles the unit ON/OFF.

3.2 Rear Panel

PS12KX.5 is perfect for home, shop and hobbyist.



Image 3.2: Detailed view of the rear panel.

- **AC Input:** Standard 3-prong AC power cord connection.
- **Cooling Fan:** Automatically activates to dissipate heat during operation.
- **Fuse:** Provides additional protection. Refer to specifications for fuse rating.

4. SETUP

1. **Placement:** Place the power supply on a stable, flat surface. Ensure there is sufficient space around the unit for proper ventilation, especially around the side and rear cooling vents.

Compatible with:



Image 4.1: Side view illustrating cooling vents.

2. **AC Power Connection:** Ensure the power supply's ON/OFF switch is in the OFF position. Connect the supplied AC power cord to the AC input on the rear panel of the power supply, then plug the other end into a standard 115V AC, 60Hz wall outlet.
3. **DC Load Connection:** Identify the positive (+) and negative (-) terminals on your DC device. Using appropriate gauge wire, connect the positive wire from your device to the RED (+) output terminal on the power supply. Connect the negative wire from your device to the BLACK (-) output terminal. Ensure all connections are tight and secure to prevent arcing or poor contact.

5. OPERATING INSTRUCTIONS

1. **Power On:** After ensuring all connections are secure, flip the POWER switch on the front panel to the ON position. The green NORMAL LED should illuminate, indicating normal operation.
2. **Monitoring:** Observe the NORMAL LED. If the red PROTECTION LED illuminates, the unit has entered protection mode. Refer to the Troubleshooting section for guidance.
3. **Power Off:** To turn off the power supply, flip the POWER switch to the OFF position. Disconnect the DC load if the device will not be used for an extended period.

6. MAINTENANCE

- **Cleaning:** Keep the power supply clean and free of dust. Use a soft, dry cloth for cleaning. Do not use liquid cleaners or aerosols.
- **Ventilation:** Regularly check that the cooling fan and ventilation openings are not obstructed by dust or debris. Blocked vents can lead to overheating.
- **Fuse Replacement:** If the unit fails to power on and the fuse is suspected, disconnect the AC power cord and replace the fuse on the rear panel with one of the identical type and rating (refer to Specifications).

THIS SECTION OUTLINES COMMON ISSUES AND THEIR POTENTIAL SOLUTIONS. IF YOU ENCOUNTER A PROBLEM NOT LISTED HERE, OR IF THE SUGGESTED SOLUTIONS DO NOT RESOLVE THE ISSUE, CONTACT CUSTOMER SUPPORT.

PROBLEM	POSSIBLE CAUSE	SOLUTION
No POWER, NO LEDs ILLUMINATED.	UNIT NOT PLUGGED IN; AC OUTLET FAULTY; POWER SWITCH OFF; BLOWN FUSE.	CHECK AC POWER CORD CONNECTION; TEST AC OUTLET; ENSURE POWER SWITCH IS ON; CHECK AND REPLACE FUSE IF NECESSARY (REFER TO MAINTENANCE).
RED PROTECTION LED IS ILLUMINATED.	OVERLOAD; SHORT CIRCUIT AT OUTPUT; OVER-TEMPERATURE.	REDUCE LOAD CURRENT; CHECK FOR SHORT CIRCUITS AT OUTPUT TERMINALS; ENSURE ADEQUATE VENTILATION AND ALLOW UNIT TO COOL. CYCLE POWER TO RESET.
No DC OUTPUT, BUT NORMAL LED IS ON.	LOOSE DC OUTPUT CONNECTIONS; FAULTY DC DEVICE.	CHECK AND TIGHTEN DC OUTPUT TERMINAL CONNECTIONS; TEST DC DEVICE WITH ANOTHER POWER SOURCE IF POSSIBLE.
UNIT FEELS EXCESSIVELY HOT.	BLOCKED VENTILATION; EXCESSIVE LOAD.	ENSURE COOLING FAN AND VENTS ARE CLEAR; REDUCE LOAD CURRENT.

8. SPECIFICATIONS

Feature	Specification
Model	PS12KX.5
Input Voltage	115V AC, 60Hz
Output Voltage	13.8V DC (Fixed)

Feature	Specification
Output Current (Continuous)	10 Amps
Output Current (Surge)	12 Amps
Output Wattage	250 Watts
Power Supply Design	Linear / Regulated
Terminals	Screw Type
Cooling Method	Air (Built-in Fan)
Protection	Electronic Overload, Short Circuit, Over-Temperature, Fuse Protected
Dimensions (L x W x H)	7.9 x 7.2 x 4.7 inches
Weight	8.73 pounds
Color	Black

9. WARRANTY AND SUPPORT

Pyramid products are designed for reliability and performance. This product is covered by a limited manufacturer's warranty against defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

For technical support, warranty inquiries, or service, please contact Pyramid customer service. Contact information can typically be found on the manufacturer's website or included in the product packaging.

Manufacturer: Pyramid

Website: [Visit the Pyramid Store on Amazon](#)