

# Operating Instructions

## Pen-Ray Power Supplies

### Model Numbers: PS-1, PS-2, PS-3 and PS-11



#### WARNING

Please read operating instructions before turning unit on.

## INTRODUCTION

The Pen-Ray Power Supplies are made specifically for the Pen-Ray Lamps, these power supplies provide proper voltage and current for starting and operating the lamps. Mating recommendations are available to provide optimum energy output from and maximum life span of the Pen-Ray lamps.

## DESIGN

Each power supply is designed to be maintenance free. There is an internal circuit protection fuse which is designed to prevent mains circuit shut down in the unlikely case of a catastrophic internal failure. The connector must be used with the mating connector supplied with the Pen-Ray lamps. The connector has been certified to **UL** and **CE** compliance for use with this power supply. The power supply carries the **CE**, **ETL** and **ETLc** marks.

## OPERATING INSTRUCTIONS

The operation of the PS series power supply is very simple:

- Make sure the switch is in the off position.
- Plug the unit into proper mains power supply.
- Connect the Pen-Ray lamp to the connector making sure the connector is completely inserted into its mating part.
- Turn on the unit and the lamp should immediately light up.
- Always turn off the unit when disconnecting or connecting the lamp.

## MAINTENANCE

Keep the connector clean and free from debris, oil, fluids, etc. If cord should become frayed or cracked they should be replaced immediately. Call UVP for replacement service.

If connector arcing should occur due to dirt in the connector or attempting to operate a Pen-Ray lamp which operates in excess of 300volts. Do not continue operation. The unit should be returned to the factory for repair. (Cleaning the carbonized area between the connector pins may restore function to the power supply).



<http://www.uvp.com>



#### WARNINGS

- Never handle the connector when the unit is in the position as hazardous shock condition will exist.
- Do not attempt to operate lamps with operating voltages greater than 300 volts continuously. Starting voltages do not apply.
- If the equipment is used in a manner not specified by UVP, Inc. the protection provided by the equipment may be impaired.



**Unit may become HOT during continuous use.**

If internal circuit protection fuse blows, the unit should be returned to the factory for service. The internal protection fuse is designed to trip if the primary coil short circuits for any reason protecting the user and the circuit it is plugged into. The unit may be cleaned with any mild cleaning agent. Avoid acids and caustic substances although powder coated finish is extremely durable. Do not use solvent cleaners on plastic end caps.

## ENVIRONMENTAL CONDITIONS

- For indoor use only
- Temperature 5 to 40°C
- Maximum on relative humidity 80% for temperatures up to 31°C decreasing linearly to 50% relative humidity at 40°C
- Mains supply voltage fluctuations not to exceed which  $\pm 10\%$  of the nominal voltage
- Installation is category II
- Pollution degree is 2

## SPECIFICATIONS

Model No.	Primary Voltage	Primary Current AMPS	Starting Voltage	Max. Lamp Voltage	Lamp Current	Dimensions
PS-1	115Vac/60Hz	0.40	2300Vac	300Vac	18ma	6.3x3.7x2.3"
PS-1	230Vac/50Hz	0.21	2300Vac	300Vac	18ma	(160x94x53mm)
PS-2	115Vac/60Hz	0.40	2000Vac	300Vac	6ma	6.3x3.7x2.3"
PS-2	230Vac/50Hz	0.21	2000Vac	300Vac	6ma	(160x94x53mm)
PS-3	115Vac/60Hz	0.40	2100Vac	300Vac	10ma	6.3x3.7x2.3"
PS-3	230Vac/50Hz	0.21	2100Vac	300Vac	10ma	(160x94x53mm)
PS-11	115Vac/60Hz	0.40	2300Vac	300Vac	18ma	5.2x2.2x3.5"
PS-11	230Vac/50Hz	0.21	2300Vac	300Vac	18ma	(132x56x89mm)

115V ETL LISTED US/CANADA; 230V CE COMPLIANCE

81-0154-01 Rev B



Corporate Headquarters: UVP, Inc. 2066 W. 11th Street, Upland, California 91786 • Tel: (909)946-3197 or Toll Free (800)452-6788 • E-mail: [uvp@uvp.com](mailto:uvp@uvp.com)

European Operations: Ultra-Violet Products Ltd, Unit 1, Trinity Hall Farm Estate, Nuffield Road, Cambridge, CB4 1TG UK • Tel: +44(0)1223 420022 • E-mail: [uvp@uvp.co.uk](mailto:uvp@uvp.co.uk)