



## Power Supplies for Pen-Ray® Lamps

### Description

Specially designed for Pen-Ray® lamps. These power supply units provide the correct voltage and current for starting and operating the Pen-Ray® lamps. There are corresponding instructions for optimum energy output and maximum service life of the Pen-Ray lamps.

### Specifications

- Pen-Ray Lamps operate on an AC current.
- For certain systems it may be desirable to operate the lamp at higher frequencies than 60 Hz.
- Pen-Ray Lamps can operate satisfactorily at frequencies from 50 Hz to 3k kHz.
- Mating recommendations are available to provide optimum energy output from, and maximum life span of the Pen-Ray Lamps.
- For indoor use only:  
room temperature 5°C to 40°C
- Maximum relative humidity 80% at temperatures up to 31°C, decreasing linearly to 50% relative humidity at 40°C
- Fluctuations in the mains voltage must not exceed +10% of the nominal voltage
- Installation is category II
- Pollution degree is 2

### Open Pen-Ray® Power Supply

PS-5, PS-6 and PS-10 DC power supplies are designed as open power supplies with no housing. They are designed for placement in other units. The power supplies feature a standard lamp current shown in the chart below.

The power supplies can be ordered with a setting in the following ranges:

PS-5 15-28mA, PS-6 and PS-10 15-48mA.



Pen-Ray Power Supply PS-9



Open power supply unit for mounting e.g. PS-5, PS-6, PS-10

## Power Supplies for Pen-Ray® Lamps

Model Part Number	Primary Voltage	Secondary Open Circuit Voltage (RMS)	Lamp Current (Nominal)	L x W x H Dimensions
<b>AC Input Power Supplies</b>				
PS-1 110.6520 (99-0055-02)	220V/50Hz	2300 Vac	18 mA	165 x 94 x 58 mm (6.5 x 3.7 x 2.3")
PS-11 (99-0064-02)	220V/50Hz	2300 Vac	18 mA	132 x 91 x 56 mm (5.2 x 3.6 x 2.2")
PS-2 110.6521 (99-0056-02)	220V/50Hz	2000 Vac	6 mA	165 x 94 x 58 mm (6.5 x 3.7 x 2.3")
PS-3 110.6521 (99-0057-02)	220V/50Hz	2100 Vac	10 mA	165 x 94 x 58 mm (6.5 x 3.7 x 2.3")
PS-4 110.6522 (99-0004-02)	220V/50Hz	2800 Vac	26 mA	152 x 124 x 94 mm (6.0 x 4.9 x 3.7")
PS-9 (99-0033-02)	220V/50Hz	2400 Vac	48 mA	152 x 124 x 94mm (6.0 x 4.9 x 3.7")
PS-8 (Transformer only) (40-0062-02)	220V/50Hz	6000 Vac	30 mA	256 x 102 x 86 mm (10.1 x 4.0 x 3.4")
<b>DC Input Power Supplies</b>				
PS-7 (open frame board) (44-0002-01)	12VDC/30kHz	1200 Vac	10 mA	28 x 56 x 17 mm (1.1 x 2.2 x 0.65")
PS-5 (open frame board) 110.6525 (99-0077-01)	12VDC/38KHz	3500 Vac	18 mA	98 x 89 x 38 mm (3.85 x 3.5 x 1.5")
PS-6 w/o timer (99-0065-01)	24VDC/38KHz	3500 Vac	28 mA	122 x 109 x 51mm (4.8 x 4.3 x 2.0")
PS-6 w Timer (99-0065-02)	24VDC/38KHz	3500 Vac	18 mA	122 x 109 x 51mm (4.8 x 4.3 x 2.0")
PS-6 w/o Timer 99-0065-03	24VDC/38KHz	3500 Vac	18 mA	122 x 109 x 51mm (4.8 x 4.3 x 2.0")
PS-6 w Timer (99-0065-04)	24VDC/38KHz	3500 Vac	10 mA	122 x 109 x 51mm (4.8 x 4.3 x 2.0")
PS-6 w/o Timer (99-0065-05)	24VDC/38KHz	3500 Vac	10 mA	122 x 109 x 51mm (4.8 x 4.3 x 2.0")
PS-6 w Timer 99-0065-06	24VDC/38KHz	3500 Vac	6 mA	122 x 109 x 51mm (4.8 x 4.3 x 2.0")
PS-6 w/o Timer (99-0065-07)	24VDC/38KHz	3500 Vac	6 mA	122 x 109 x 51mm (4.8 x 4.3 x 2.0")
PS-6 (open frame board) (99-0076-01)	24VDC/38KHz	3500 Vac	18 mA	98 x 89 x 38 mm (3.85 x 3.5 x 1.5")

**\*Please note that not all power supply units are available for Europe.**

All the power supplies are RoHS compliant. PS-8 is a high-voltage transformer only and its housing can be provided at customer request. The DC input power supplies feature high-frequency operation and standard lamp currents as designated above. To order a power supply with a different output current, contact us. The current setting is available in the range of 5-48mA for the DC power supplies.