



This compact switch-mode power source provides constant power to a 400 / 600 Watt mercury vapor or metal halide medium pressure arc lamp. The supply is available in a 100 / 120 VAC (400W: UV0902 / 600W: UV2279) or a 200 / 240 VAC (400W: UV1241 / 600W: UV1242) version to accommodate international use. A "standby" switch signal is provided for reducing output power while the system is idle. The unit also contains an un-isolated 12 Volt output for powering a local cooling fan. An integrated lamp igniter is provided which eliminates the need for an external high-voltage starter.

FEATURES

+ Two input voltage range options available

The unit is available in a 90 to 132 VAC or 180 to 265 VAC input range making the Uvitron lamp power supply easy to use in any country.

+ Integrated high voltage lamp starter

The unit's lamp starter provides up to 10 kV, enough voltage for igniting virtually any lamp. This high voltage capability allows instant hot lamp restarts after short line voltage interruptions (2 seconds typical). The igniter also has a timeout shutdown feature for protection with defective or disconnected lamps.

+ Lamp power regulation

To maintain constant power, the system divides the desired output power by the actual lamp voltage. This provides the appropriate current to the lamp to compensate for lamp and line voltage variations. The result is repeatable curing times as the lamp ages, when the lamp is replaced, or when the input voltage fluctuates.

+ Standby power mode

The unit has an external standby input for reducing lamp power to 1/2 for the 400 W and 1/3 for the 600 W. This can reduce excess heat and power consumption during idle therefore increasing system reliability, efficiency and reducing ambient temperature rise.

+ Status Indicators

An on-board Ready LED is provided which lights to indicate that lamp warm-up has completed.

TECHNICAL SPECIFICATIONS

Category	Parameter	Value	Conditions/Notes
General	Model	Economical 400 / 600 W Arc Lamp Power Supply	
	Part Number	UV0902 (400W, 120 VAC) UV2279 (600W, 120 VAC)	UV1241 (400W, 240 VAC) UV1242 (600W, 240 VAC)
Power Supply	Input Voltage	90 to 132 VAC	180 to 265 VAC
	Input Current (max@low line)	7 A (400W) 10 A (600W)	3.5 A (400W) 5 A (600W)
	Source Input Frequency	47 Hz to 63 Hz	
	Brownouts	80V for 1 minute, system continues to operate normally	
	Efficiency	93%	(Typical)
Lamp	Lamp Type	400 / 600 Watt mercury vapor or metal halide	
	Output Voltage	140 ± 10%	
	Wave Shape	75 Hz Quasi Square	(Current / Voltage)
	Lamp Power Regulation	± 1%	
	Operation	Continuous Mode	
Low Voltage	Fan Power Supply	12 VDC ± 10%	5 Watts Max (un-isolated)
Protection	Inrush Current Limit	Provided	
	Line Volt Surge Protection	Provided	
	Short Circuit Protection	Provided	
	Open Circuit Protection	Provided	
	Over Temperature Protection	Provided	
	Ignition Timeout Protection	Provided	210 seconds typical
Environmental	Operating Temperature	0°C to +50°C	
	Storage Temperature	0°C to +70°C	
	Humidity	90% relative	With no condensation
	EMI RFI – Conducted	FCC Class A	On board filter
	EMI RFI – Conducted	FCC Class B	With external filter
Dimensions	L x W x H	7.25" x 4.25" x 2.2"	Including ¼" standoffs
	Weight	1.3 lb	