



*EMSC, LLC*

**EM350xs**

**35 TO 350 WATT SWITCH-MODE LAMP POWER SUPPLY**



Designed specifically for use with short arc xenon and mercury(xenon) lamps in the 35 to 350 Watt range. The innovative zero crossing switch-mode design approaches the low noise performance of our linear power supplies.

Our new line of switch-mode lamp power supplies virtually eliminates high frequency switching transients by applying the next generation technology; namely, zero-current switching and switching frequencies up to 2 Mhz. This technique substantially reduces propagated noise that may impact other equipment.

The **Switch-Mode power supplies** feature high regulation and low ripple. Line and load regulation is less than 0.8%. Current ripple is only 0.5% This superior performance extends lamp life.

The **Switch-Mode power supplies** are easy to operate - installation is literally a snap. Plug in the lamp to the integral ignitor, set the current and turn the power on. The lamp will start if the configuration was in auto; otherwise start it remotely.

**FEATURES**

- ◆ High regulation
- ◆ Only 50 mV peak to peak noise attributable to zero crossing switch-mode design
- ◆ Designed to comply with all safety agency regulations: meets UL, CSA, TUV, VDE and CE standards
- ◆ One-Year Warranty
- ◆ Current controlled light intensity
- ◆ Adjust lamp intensity from the front panel
- ◆ Multi line voltage operation anywhere in the world
- ◆ Remote monitoring of lamp current and voltage
- ◆ Automatic or manual lamp start
- ◆ State of the art single pulse ignitor
- ◆ DC fan output for extra cooling
- ◆ High efficiency makes the package light and compact



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# EM350xs

With over three decades of experience in the design and manufacture of instrumentation for analytical chemistry, spectroscopy and spectrophotometry, we understand the requirements necessary to make our products truly research grade. They are manufactured to the highest of standards. Each unit delivers dependable, high performance, allowing you to focus on your results.

Our instruments are designed to comply with most world safety agency standards. For additional safety, we feature a unique interlock system which addresses numerous safety concerns.

Our products are built to perform under extreme conditions. Each power supply is burned in at an elevated temperature and line voltage for 24 hours, and must meet our exhaustive quality inspection before being released for shipment. The exceptional reliability is backed by our one-year warranty.

Our team is committed to personal service to our customer, and to your complete satisfaction.

TYPICAL SPECIFICATIONS	
AC Input:	95-130 VAC/5A 190-260 VAC/2.5A 50/60 Hz
DC Power Output:	35-350 Watts
Output Current:	2 to 23 A
Output Voltage:	Lamp dependent 10 to 26 VDC
Pre-ignition Voltage:	>130 VDC
Line Regulation:	0.8% change over 95-130 VAC or 190-260 VAC
Load Regulation:	< 0.8% change of 50% load
Stability:	<1% Lamp Current after 1 hour warm-up
Noise:	< 50mV peak to peak from 50Hz to 600 KHz
Ripple with Resistive Load:	< 0.5% RMS 20 Hz to 50 kHz
Light Ripple:	< 1.0% RMS
Max. Operating Temp:	40° C
Weight:	3.0 lb. (1.4 kg)
Dimensions:	3.5 x 7.0 x 5.0 in. 8.9 x 17.8 x 12.7 cm

To learn more about our products, visit our website at [www.EMSC-LLC.com](http://www.EMSC-LLC.com)

ARC LAMP COMPATIBILITY									
XENON LAMPS					XENON(MERCURY) LAMPS				
POWER	VOLTAGE	CURRENT	FLUX	LIFE	POWER	VOLTAGE	CURRENT	FLUX	LIFE
35W	11V	3.5A	lm	2000 h	50W	14V	3.5A	lm	1000 h
75W	14V	5.4A	950 lm	400 h	75W	14V	5.4A	lm	1000 h
150W	20V	7.5A	3000 lm	1200 h	100W	18V	5.5A	lm	1000 h
150W	18V	8.5A	2900 lm	1200 h	150W	20V	7.5A	lm	2000 h
250W	14V	18A	4800 lm	1200 h	200W	24V	8A	4500 lm	2000 h
300W	20V	15A	8000 lm	1000 h	200W	22V	9A	7000 lm	500 h
300W	15V	20A	5000 lm	1000 h	350W	25V	14A	lm	1000 h
MERCURY LAMPS					CERAMIC COMPACT XENON LAMPS				
POWER	VOLTAGE	CURRENT	FLUX	LIFE	POWER	VOLTAGE	CURRENT	FLUX	LIFE
50W	22V	2.3A	1300 lm	200 h	150W	12V	13A	2000 lm	1000 h
100W	20V	5.0A	2000 lm	200 h	175W	13V	14A	3600 lm	1000 h
					300W	14V	21A	6000 lm	1000 h



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