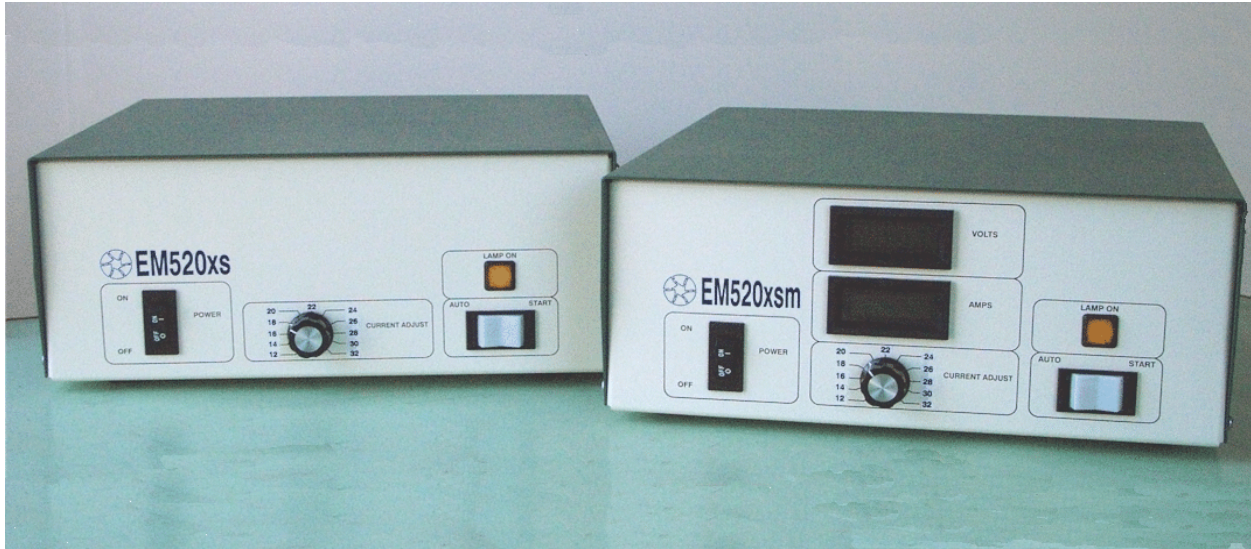




EMSC, LLC

EM520xs

150 TO 500 WATT SWITCH-MODE LAMP POWER SUPPLY



Designed specifically for use with short arc xenon and mercury(xenon) lamps in the 150 to 500 Watt range. The innovative zero crossing switch-mode design approaches the low noise performance of our linear power supplies.

Everyone likes the size and weight advantages of switchers versus linear power supplies. Usually the trade-off is much higher ripple and noise. Our new line of switch-mode lamp power supplies approaches the performance of our linear LPS's, virtually eliminating high frequency switching transients by applying the next generation technology; namely, zero-current switching and switching frequencies up to 2 MHz.

The **Switch-Mode power supplies** feature research grade performance - less than 0.5% stability after warm-up. Noise and ripple measure less than 0.3% RMS. Line and load regulation is less than 0.5%. This superior performance extends lamp life and reduces arc wander.

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 lamp switch was in auto, otherwise push it to start.

FEATURES

- ◆ Research grade performance
- ◆ Very high regulation
- ◆ Approaches performance of our linear mode power supplies
- ◆ 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 current 12 to 32 Amps 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
- ◆ Plug in the fan for lamp cooling
- ◆ High efficiency makes the package light and compact



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755 Main Street, Building 2, Monroe, CT 06468 USA

(203) 268-5101 Voice (203) 268-5144 Fax www.EMSC-LLC.com

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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/7A 190-260 VAC/3.5A 50/60 Hz
DC Power Output:	150-500 Watts
Output Current:	12 to 32 A
Output Voltage:	Lamp dependent 10 to 26 VDC
Pre-ignition Voltage:	>130 VDC
Line Regulation:	0.5% change over 95-130 VAC or 190-260 VAC
Load Regulation:	< 0.5% change of 50% load
Stability:	< 0.5% Lamp Current after 1 hour warm-up
Noise:	< 50mV peak to peak from 50Hz to 600 KHz
Ripple with Resistive Load:	< 0.3% RMS 20 Hz to 50 kHz
Light Ripple:	< 0.6% RMS
Max. Operating Temp:	40° C
Weight:	12 lb. (5.5 kg)
Dimensions:	5.5 x 13.2 x 15.2 in. 14.0 x 33.5 x 38.6 cm

To learn more about our products, visit our website at www.EMSC-LLC.com

ARC LAMP COMPATIBILITY									
XENON LAMPS					XENON(MERCURY) LAMPS				
POWER	VOLTAGE	CURRENT	FLUX	LIFE	POWER	VOLTAGE	CURRENT	FLUX	LIFE
250W	14V	18A	4800 lm	1200 h	350W	25V	14A	1m	1000 h
300W	20V	15A	8000 lm	1000 h	500W	25V	20A	1m	1000 h
300W	15V	20A	5000 lm	1000 h					
450W	18V	25A	13000 lm	2000 h	CERAMIC COMPACT XENON LAMPS				
500W	20V	24A	16000 lm	2000 h	POWER	VOLTAGE	CURRENT	FLUX	LIFE
500W	20V	25A	14000 lm	1500 h	150W	12V	13A	2000 lm	1000 h
500W	18V	28A	14500 lm	2000 h	175W	13V	14A	3600 lm	1000 h
500W	14V	30A	14000 lm	500 h	300W	14V	21A	6000 lm	1000 h
500W	15V	30A	13000 lm	1500 h					



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