



EMSC, LLC

500 Watt Linear Arc-Lamp Power Supply

EM520UL

*We provide solutions
to your special
light requirements!*



The **EM520ul**, a linear type power supply, is designed specifically for use with short arc xenon, mercury and xenon/mercury lamps in the 50 to 500 watt range. Its innovative linear design eliminates the concern for high frequency noise propagating to other electronic components. Its superior performance is preferred for demanding research applications.

The **EM520ul** features research grade performance - less than 0.1% stability after warm-up. Noise and ripple measure less than 0.05% RMS. Line and load regulation is less than 0.1%. This superior performance extends lamp life and reduces unwanted arc wander.

- Research grade performance
- Meets UL, CSA, TUV, VDE and CE standards
- Two-Year Warranty underlines reliability
- Range of lamps provides flexibility



EMSC, LLC

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EM520ul

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.

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

TYPICAL SPECIFICATIONS	
AC Input:	95-130 VAC/10A 190-260 VAC/5A 50/60 Hz
DC Power Output:	50-500 Watts
Output Current:	2 to 32 A
Output Voltage:	Lamp dependent 12 to 85 VDC
Pre-ignition Voltage:	<130 VDC
Line Regulation:	<0.1% change over 95-130 VAC or 190-260 VAC
Load Regulation:	< 0.1% change of 50% load change
Stability:	<0.1% Lamp Current after 1 hour warm-up
Noise:	< 50 uV peak to peak from 50Hz to 600 KHz
Ripple with Resistive Load:	< 0.05% RMS 20 Hz to 50 kHz
Light Ripple:	< 0.1% RMS
Max. Operating Temp:	40° C
Weight:	38.0 lb. (17.2 kg)
Dimensions:	5.5 x 13.2 x 15.2 in. 14.0 x 33.5 x 38.6 cm

ARC LAMP COMPATIBILITY									
XENON LAMPS					XENON(MERCURY) LAMPS				
POWER	VOLTAGE	CURRENT	FLUX	LIFE	POWER	VOLTAGE	CURRENT	FLUX	LIFE
75W	14V	5.4A	950 lm	400 h	50W	14V	3.5A	lm	1000 h
150W	20V	7.5A	3000 lm	1200 h	75W	14V	5.4A	lm	1000 h
150W	18V	8.5A	2900 lm	1200 h	100W	18V	5.5A	lm	1000 h
250W	14V	18A	4800 lm	1200 h	150W	20V	7.5A	lm	2000 h
300W	20V	15A	8000 lm	1000 h	200W	24V	8A	4500 lm	2000 h
300W	15V	20A	5000 lm	1000 h	200W	22V	9A	7000 lm	500 h
450W	18V	25A	13000 lm	2000 h	350W	25V	14A	lm	1000 h
500W	20V	24A	16000 lm	2000 h	350W	70V	5A	19000 lm	500 h
500W	20V	25A	14000 lm	1500 h	500W	25V	20A	lm	1000 h
500W	18V	28A	14500 lm	2000 h	CERAMIC COMPACT XENON				
500W	14V	30A	14000 lm	500 h					
500W	15V	30A	13000 lm	1500 h	POWER	VOLTAGE	CURRENT	FLUX	LIFE
MERCURY LAMPS					150W	12V	13A	2000 lm	1000 h
POWER	VOLTAGE	CURRENT	FLUX	LIFE	175W	13V	14A	3600 lm	1000 h
50W	22V	2.3A	1300 lm	200 h	300W	14V	21A	6000 lm	1000 h
100W	20V	5.0A	2000 lm	200 h					
200W	47-65V	3.1-4.2A	10000 lm	400 h					
200W	61V	3.6A	9500 lm	200 h					
350W	60-75V	4.7-5.9A	19500 lm	400 h					
500W	67-85V	5.9-7.4A	30000 lm	400 h					



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