



EMSC, LLC

EM300ds

75 TO 300 WATT SWITCH-MODE LAMP POWER SUPPLY



Switch-mode type power supply is designed specifically for OEM application powering Xenon Compact Ceramic Lamps up to 300 Watts. It features Power Factor Correction and integral lamp igniter.

The **EM300ds** is designed specifically for OEM illumination type applications using up to 300 Watt Xenon Compact Ceramic Lamps. Applications requiring high reliability and safety standards were the primary design criteria.

Each power supply is burned in at an elevated temperature and line voltage for 24 hours and then backed up with our two-year warranty. The **EM300ds** is designed to comply and exceed most world safety agency standards including class 1 medical standards.

FEATURES

- ◆ High reliability
- ◆ Two-Year Warranty
- ◆ Designed to comply with all safety agency regulations: meets UL, CSA, TUV, VDE and CE standards
- ◆ Pulsed mode capability
- ◆ Current controlled regulation
- ◆ Adjust lamp intensity remotely
- ◆ Power Factor Correction assures operation anywhere in the world
- ◆ Remote lamp - on monitor
- ◆ Automatic or manual lamp start
- ◆ State of the art single pulse igniter
- ◆ DC fan output for extra cooling
- ◆ High efficiency makes the package light and compact

*We provide solutions to your special light requirements!*



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Electro Magnetic Sciences Company

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

(203) 268-5101 Voice (203) 268-5144 Fax [www.EMSC-LLC.com](http://www.EMSC-LLC.com)

# EM300ds

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/6A
(Power Factor Corrected)	190-260 VAC/3A
	50/60 Hz
DC Power Output:	75 - 300 Watts
Output Current:	3 to 23 A
Output Voltage:	10 to 22 VDC Lamp dependent
Pre-ignition Voltage:	>100 VDC
Ignition Voltage:	>25K Volts Single Pulse
Auxiliary 12 Volts DC:	Up to 1.0 Amps
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, 50 Hz 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:	2.8 x 4.6 x 6.7 in. 7.2 x 11.5 x 17.0 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
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	15A	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					
CERAMIC COMPACT XENON LAMPS					MERCURY LAMPS				
POWER	VOLTAGE	CURRENT	FLUX	LIFE	POWER	VOLTAGE	CURRENT	FLUX	LIFE
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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