

# LDLS™

## Selection Guide



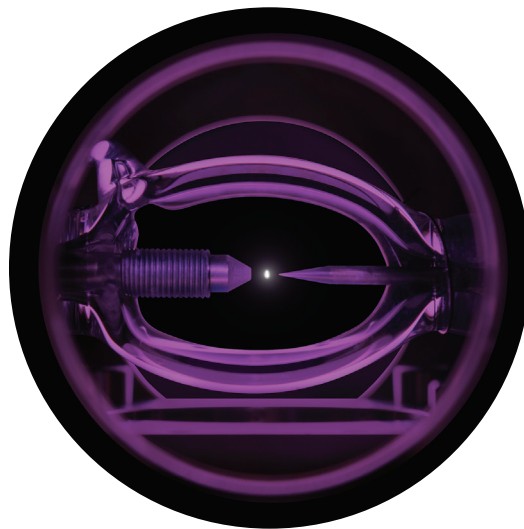
Model	EQ-99X	EQ-99XFC	EQ-77	EQ-400
<b>General Characteristics</b>	Compact, High-Brightness Source with window output for free-space optics coupling	Compact, High-Brightness Source with fiber optic coupled output	Highest Brightness, High Power Source with single-beam output and retro-reflector	Highest Brightness, High Power Source with dual window output for free-space optics coupling
<b>Typical Broadband Optical Power</b>	~0.5W	~80mW (from 230µm diameter fiber, 0.22NA)	~2W	~15W
<b>Typical Spectral Radiance/Brightness</b> <i>(Depending on Wavelength)</i>	~10 mW/mm <sup>2</sup> .sr.nm	~60 µW/nm (from 230µm diameter fiber, 0.22NA)	~40 mW/mm <sup>2</sup> .sr.nm	~100mW/mm <sup>2</sup> .sr.nm
<b>Optical Interface</b>	Point source with 0.47N diverging beam for collection by free-space optic. (SM1 thread)	Standard FC connector for connection to fibers up to 1mm diameter	Point source with 0.5NA diverging beam from front and back windows	Point source with 0.5NA diverging beam from front and back windows. Optional retro-reflector
<b>Cooling System</b>	Air-cooled	Air-cooled	Water-cooled. Requires chiller (available from Energetiq)	Water-cooled. Requires chiller (available from Energetiq)
<b>Common Features</b>	Broadband spectrum, 170nm–2100nm; (190nm–2100nm for EQ-99XFC) Long-life bulb			
<b>Applications</b>	UV-Vis Spectroscopy Optics Testing Analytical Instrumentation Monochromater Source	UV-Vis Spectroscopy Fiber Optic Testing Thin-film Measurement Turn-key Systems	Semiconductor Metrology Optical Testing Advanced Imaging Thin-film Measurement	Semiconductor Metrology Materials Characterization Advanced Imaging Thin-film Measurement

**Note:** Performance measures mentioned in this Selection Guide are typical values for guidance in the selection and use of LDLS™ products. They are not to be taken as specifications. **Please contact Energetiq for further details: [info@energetiq.com](mailto:info@energetiq.com)**

## Ultra-High Radiance Broadband Light Sources

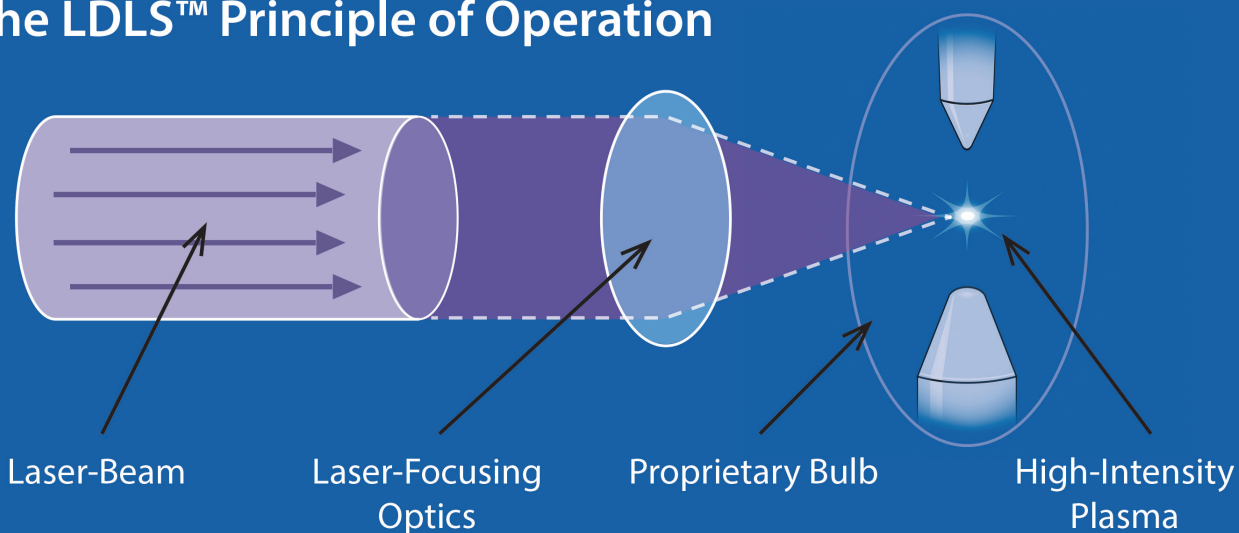
Energetiq Technology is a developer and manufacturer of advanced light sources that produce high radiance light in the 170nm to 2100nm wavelength range with high reliability, high stability, and long life.

- Broadest wavelength range: 170nm - 2100nm
- Replaces Deuterium, Tungsten/Halogen and Xenon arc lamps
- Highest brightness and radiance with exceptional stability
- Electrodeless operation reduces consumable cost and minimizes recalibration
- Industry standard in semiconductor wafer fabs worldwide
- Operates 24/7/365 with high reliability



**High-Intensity Xenon Plasma**

### The LDLS™ Principle of Operation



### About Energetiq

*Energetiq Technology, Inc. is a developer and manufacturer of advanced light sources that enable the analysis and manufacture of nano-scale structures and products. The Energetiq team combines its deep understanding of the high power plasma physics needed for high-brightness light generation with its long experience in building rugged industrial & scientific products. The result is that users can expect the highest levels of performance combined with the highest reliability.*



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