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One of the most significant recent breakthroughs in the area of diode-pumped solid-state lasers is a hybrid fiber/DPSS laser that combines fiber laser technology and DPSS power amplification with efficient harmonic generation. One example delivering high, flexible repetition rates in the green and UV is shown in Figure 8.

Diode-pumped solid-state laser - Wikipedia

Our diode pumped solid state (DPSS) lasers product range includes the LCX series of continuous wave (CW) DPSS lasers from Oxxius - a world-class manufacturer of high quality, solid-state laser sources. Oxxius offer DPSS lasers spanning the VIS-NIR wavelength ranges and are available in single longitudinal mode (SLM), ultra-low noise configuration.

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A diode-pumped solid-state laser (DPSSL) is a solid-state laser made by pumping a solid gain medium, for example, a ruby or a neodymium-doped YAG crystal, with a laser diode. DPSSLs have advantages in compactness and efficiency over other types, and high power DPSSLs have replaced ion lasers and flashlamp-pumped lasers in many scientific applications, and are now appearing commonly in green and other color laser pointers.

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Diode pumping makes it possible to use a very wide range of solid-state gain media for different wavelength regions, including e.g. upconversion lasers. For many solid-state gain media, the lower brightness of discharge lamps would not be sufficient. The low intensity noise of laser diodes leads to low noise of the diode-pumped laser.

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Solid state lasing media are typically optically pumped, using either a flashlamp or arc lamp, or by laser diodes. Diode-pumped solid-state lasers tend to be much more efficient and have become much more common as the cost of high-power semiconductor lasers has decreased. Mode locking *Solid-state laser - Wikipedia*

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Diode-Pumped Solid-State Lasers or DPSS Lasers. Solid-state lasers in IR, Green, and UV wavelengths offering ns, ps, fs pulses and powers up to 100 watts. The Coherent diode-pumped solid-state (DPSS) portfolio includes pulsed and short-pulsed Q-switched, mode-locked, and CW lasers that enable a wide range of applications in materials processing, life sciences, and research.

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The diode-pumped solid state lasers are based on our proprietary laser cavity technology, which allows the lasers to operate in a single longitudinal mode and single TEM₀₀ mode with low noise and extremely low power consumption in a compact laser housing.

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