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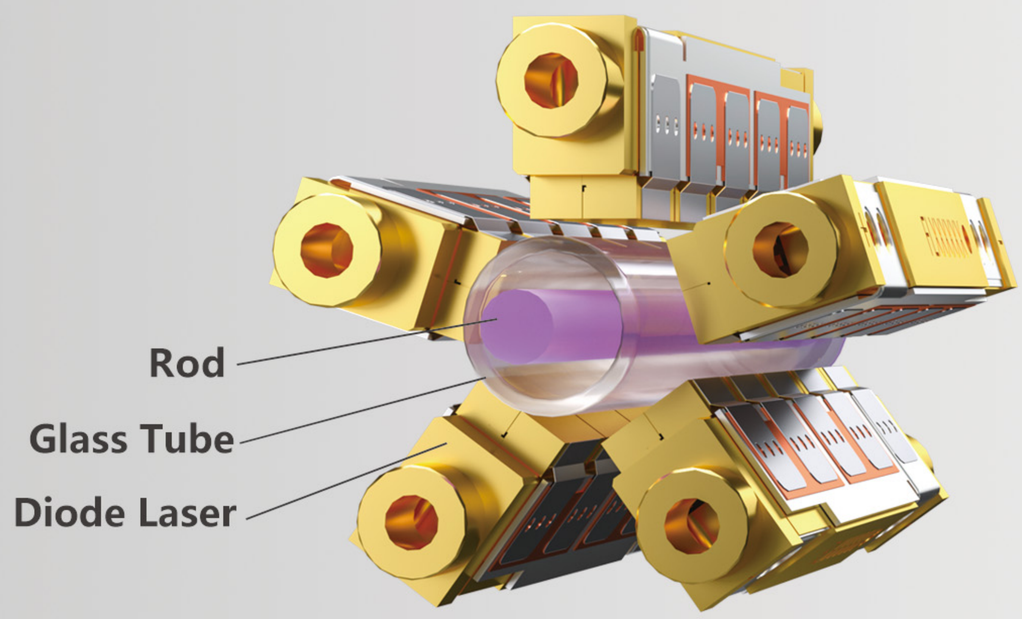

HIGH-POWER DIODE LASER SIDE PUMPED MODULES

Diode pumped solid-state lasers (DPSSLs), enjoying the advantages of high power, high beam quality output, less thermal effect, high efficiency, and compact device structure, have gradually replaced the traditional lamp pumped lasers and gas lasers. As the core pumping source, the diode laser side pumped modules determine the performance and reliability of solid-state lasers.

Utilizing Focuslight's advanced high-power diode lasers as the core component, and employing unique optical design, water flow design and the ASE (Amplified Spontaneous Emission) effect control method, SP17 & SP18 achieve high-peak power, high gain, and high uniformity of fluorescence distribution. As the gain increases, the high-peak power pumping module will generate a serious ASE effect if no corresponding measures are taken,which results in gain saturation and in the end, prevents the module from a high SSG value. SP17 and SP18 side pumped modules take effective measures to inhibit the ASE effect.

Product Features

Part No.	Pumping Peak Power (W)	Rod Diameter (mm)	Number of Bars	Small Signal Gain (SSG)	Work Mode
• SP17	30000	10	150	>55	QCW
• SP18	5000	4	25	>30	QCW

Note: Products can be customized according to specific requirements.

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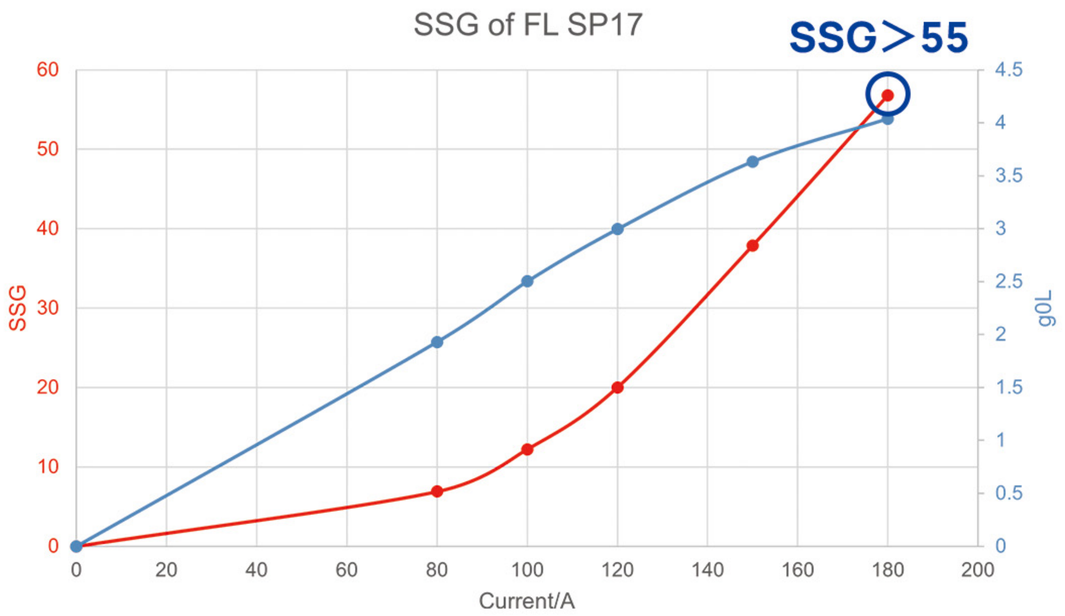
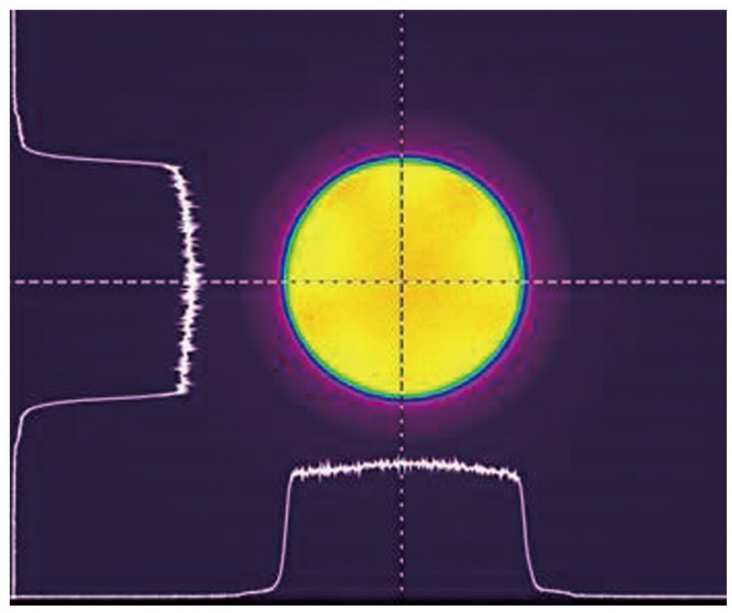
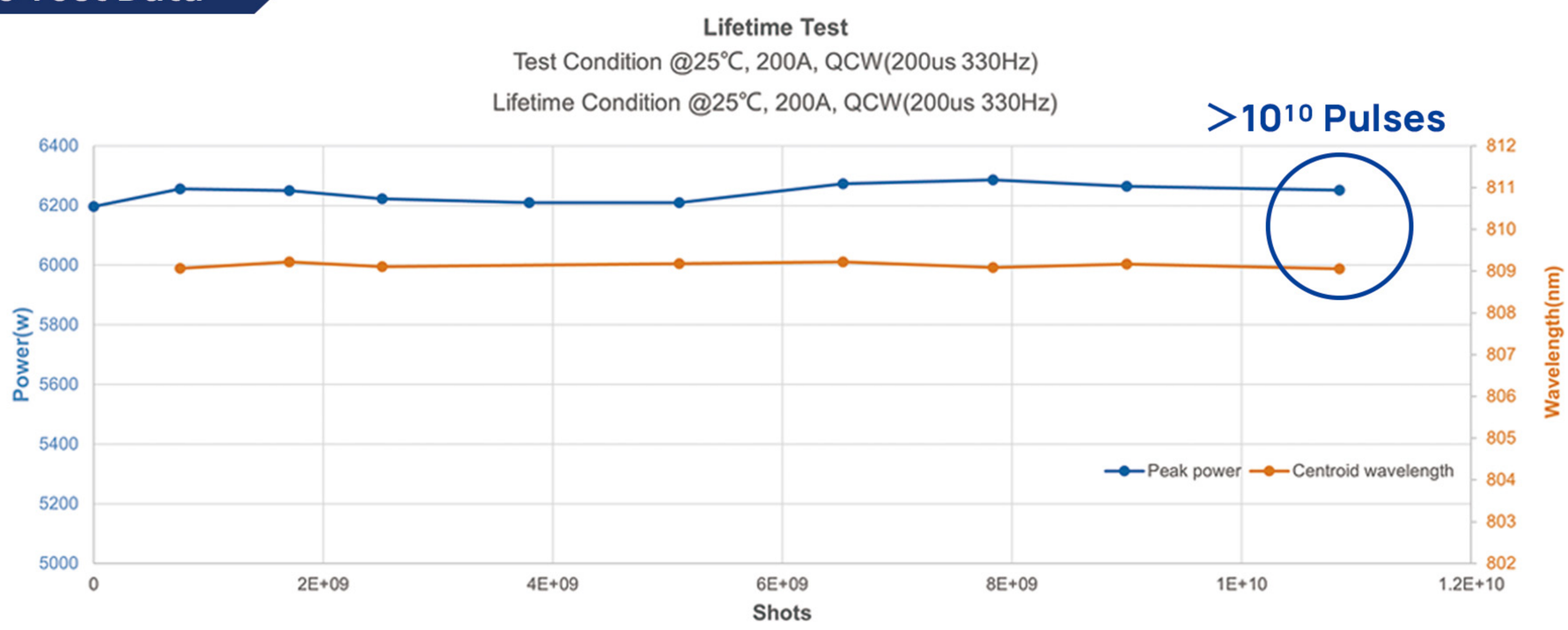


SSG Test Data

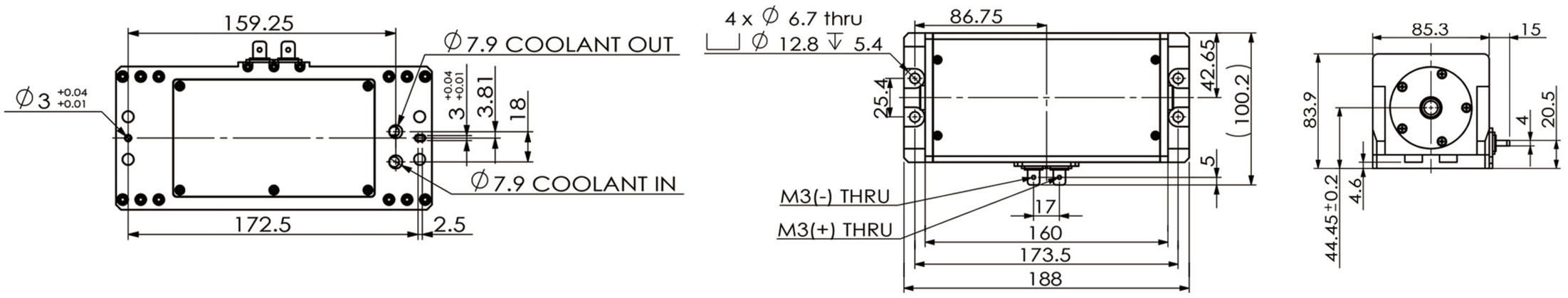


Fluorescence Imaging Profile

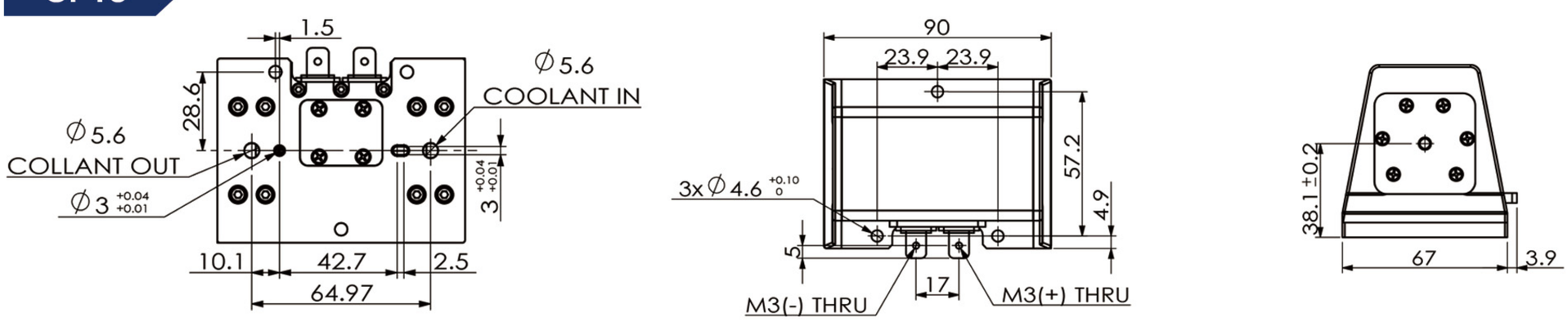
Lifetime Test Data



SP17



SP18



COMPANY INTRODUCTION

Founded in 2007 and headquartered in Xi'an, China, Focuslight Technologies Inc. is a fast-growing public company (Shanghai: 688167) that specializes in developing and manufacturing high-power diode laser components and materials, laser optics, as well as photonics module and system solutions focusing on optical communication, automotive, pan-semiconductor, and medical and health applications. Focuslight has expanded its global footprint through strategic acquisitions including LIMO GmbH in 2017 and SUSS MicroOptics SA in 2024 (now as Focuslight Switzerland SA). With the acquisition of assets from ams OSRAM in 2024, Focuslight extends its business to be a global photonics foundry by providing global photonics industry process development and manufacturing service under the brand of Heptagon.

Focuslight Technologies Inc.

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