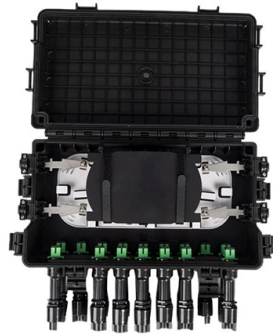


# High-power blue laser diode laser



## Overview

Blue lasers (445-465 nm) contain directly-emitting diodes and produce an optical output power of up to 10 W. This laser has a fast switch-on time, excellent stability, and operates in a wide temperature range. As a standard, this laser comes with a fiber connection. Diode laser for the processing of highly reflective metals such as copper or gold in a new power class of up to 6 kW laser power Low energy absorption of highly reflective metals such as copper or gold in the 1,000 nm wavelength range poses major challenges for standard IR lasers. A development kit is available. Premstaetten (Austria) and Munich (Germany), (March 05, 2025) - ams OSRAM (SIX: AMS), a global leader in intelligent sensors and emitters, announces the launch of its new high-power blue laser diode, the PLPT9 450LC\_E. This innovative product stands out with its impressive wall-plug efficiency of. RPMC offers a comprehensive selection of blue lasers, spanning diodes, DPSS, and microchip systems to meet a wide array of application needs. With wavelengths from 415 to 495 nm, our blue lasers provide unmatched versatility for precise materials processing, superior metal absorption, and. NUBM44 is a high-power laser diode with 6 W of power from a small emitter. Our selection of High-Powered Visible Diode Lasers offers a few key features including: High efficiency and long lifetime. Leading product performance and innovative packaging; their small package size is particularly beneficial.

## Article Content

Aug 24, 2025

450nm 2.5W High Power Blue Laser Engraving Module-New Laser Head

Diode Module, Diodes, Laser, Laser Head, NA Wavelength 450nm Power 2.5W Operating Voltage Dc 12V Accessory Type Power Supply, Illumination Module key selling points Long Service Life warranty

Oct 23, 2025

1pc Panasonic KLC431FS01WW 405nm 1W 1000mW High-power Blue-violet Laser ...

Brand Jolooyo Output Power 1W Model KLC431FS01WW MPN KLC431FS01WW Country of Origin China Module Diameter 5.6mm Wavelength 405nm Intended Use/Discipline

Mar 11, 2026

Vertical-cavity surface-emitting laser

The vertical-cavity surface-emitting laser (VCSEL / 'vɪksəl /) is a type of semiconductor laser diode with laser beam emission perpendicular from the top surface, contrary to conventional edge-emitting

Mar 11, 2026

Market Insights: Global Germany Continuous Wave Laser Diode

The Germany Continuous Wave Laser Diode market is a segment of the broader photonics and optoelectronics industry, focusing on laser diodes that emit a continuous wave of light, often

May 09, 2026

Help getting a green laser diode? | Laser Pointer Forums

Hi, i have looked around on the internet and i have been finding just green laser modules not diodes. I have made a red laser and now i want to make a green and i need to research first, i am

Jun 27, 2025

"GRAVITAS" High Power Blue Laser

The GRAVITAS 15W is the world's strongest laser pointer at 15,000mW. Visible for over 30+ miles, this double-diode-stacked handheld laser

Aug 08, 2025

Cobolt 05-01 Series

Cobolt 05-01 Series High power, single frequency, CW diode pumped lasers The Cobolt 05-01 Series lasers are continuous-wave diode pumped lasers (DPL)

Jul 14, 2025

BeamQ Laser, DFB Laser, Solid State Laser, Gaussian

BeamQ Laser : - Laser Beam Modules Laser Diodes Optical DPSS Solid State Laser Laser Optics Laser Dazzlers AOM modulator Blue Laser Pointers Green

Mar 23, 2026

CrystaLaser QL440/QL447/QL473 Q-Switched Blue Diode-Pumped

Overview The CrystaLaser QL440, QL447, and QL473 series are compact, air-cooled, diode-pumped solid-state (DPSS) Q-switched lasers engineered for precision applications requiring stable,

Aug 23, 2025

High-power narrow-linewidth blue external cavity diode laser

Such high-power narrow-linewidth blue diode lasers show potential applications in second-harmonic generation, high-resolution spectroscopy, medical treatment, and industrial processing.

Jun 11, 2026

High-Power Diode Laser Technology XXIV | (2026)

In this study, we report the development of a high-power, high-brightness blue laser light source using narrow-spectral-width laser technology and Wavelength Beam Combining (WBC)

Jan 23, 2026

Femtosecond Lasers - ultrashort pulses, mode-locked

Femtosecond lasers are lasers emitting light pulses with durations between a few femtoseconds and hundreds of femtoseconds.

Dec 30, 2025

High Power Visible Laser Diodes - Blue

Our selection of High-Powered Visible Diode Lasers offers a few key features including: High efficiency and long lifetime. Wide temperature range and high

Sep 12, 2025

ams OSRAM PLPM7 455QA\_LL Blue Laser Diode 455 nm 42 W, 8

The ams OSRAM Firefly is a high-power blue laser diode module designed for professional projection and lighting applications. It delivers outstanding optical performance with radiant flux values in the

Oct 08, 2025

Wuhan Raycus Fiber Laser Technologies Co., Ltd.

About Raycus Wuhan Raycus Fiber Laser Technologies Co., Ltd. (hereinafter referred to as "Wuhan Raycus") is the first Chinese enterprise

Sep 04, 2025

Sacher Lasertechnik Group

Sacher Lasertechnik is technology leader for tunable high power external cavity diode lasers. Applications incl. Absorption and Raman spectroscopy, environmental analysis, process control,

Jan 31, 2026

NUBM44 445 nm 6 W High-Power Blue Laser Diode

This blue laser diode is the highest power laser diode currently available for a laser with a single emitter or in a standard TO package. This GaN laser operates at

May 01, 2026

GaN-based high-output-power blue laser diodes for display applications

Abstract— We succeeded in fabricating high-output-power blue (445 nm) laser diodes (LDs) with an output power of 500 mW. The operating current, voltage, and wall-plug efficiency of

Sep 07, 2025

Blue Lasers | 420-499nm, pulsed, CW & diode lasers

With up to 2000 W of power and customizable packaging from components to turnkey systems, RPMC's blue lasers ensure reliable performance and tailored

May 26, 2026

High Power 435nm 60W Blue Laser Module for Laser Cutting Machine

2. 60W High Power & Excellent Beam Quality Equipped with genuine high-power 435nm laser diodes, the module delivers 60W real optical power (not electrical power) in CW mode, with stepless power

Jan 14, 2026

Development of High-Power Blue Laser Diodes

In this section, we report the manufacturing method and characteristics of this high output blue laser diodes. Output power and WPE improvement of the blue laser diodes. Figure 2 shows the schematic

Dec 01, 2025

405nm Laser Diode - BeamQ Laser

405nm laser diodes have violet color. BeamQ All kinds 405nm Diode s. 405nm laser diodes are based on a heterostructure with either gallium nitride or indium

May 24, 2026

ams OSRAM 455 nm High-Efficiency Blue Laser Diode

By using a phosphor conversion process, blue laser diodes can generate high-power white light, which is suitable for applications requiring high-quality

Nov 02, 2025

Amazon : Laser

Green Laser Pointer Long-Range Laser Pointer High Power-Rechargeable Laser Pointer for Hiking, Presentations & Outdoor Use 3K+ bought in past month Add to cart Best Seller

Aug 09, 2025

World's Highest Output Power of 6 kW Achieved in

The 6 kW blue direct diode laser consists of a recently developed 1 kW blue direct diode laser and a unique processing head that combines the output

Sep 07, 2025

Laser Diodes & Direct Diode Lasers Market: 12.7% CAGR, \$2.75Bn

The Laser Diodes and Direct Diode Lasers market projects 12.7% CAGR through 2034. Analyze market drivers in healthcare, telecom, company shares, and regional trends.

Jun 30, 2025

nLIGHT | Semiconductor Fiber Lasers

Leading the world in high-power lasers for mission-critical directed energy, sensing, and advanced manufacturing applications.

Apr 17, 2026

Blue High-Power Lasers

Blue lasers (445-465 nm) contain directly-emitting diodes and produce an optical output power of up to 10 W. This laser has a fast switch-on time, excellent

## Contact Us

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