NukW kW級レーザ増幅器プラットフォーム

Kilowatt Level Laser Amplifier Platform

NukW — Harnessing Power

Nufern's commitment to high-power active fibers and fiber integration has enabled us to deliver a kilowatt-level optical amplifier platform suitable for beam combining applications. NukW systems provide superior optical performance including single-mode beam quality, very high optical efficiency, and narrow linewidth. With remote diode pumping and electronics mounting, and beam delivery up to 10 meters, the integration possibilities for a NukW system offer unmatched flexibility. Delivered as a complete turnkey unit ready for immediate installation and use, the NukW amplifier is enabling the next generation of high energy laser development. **How would you like yours?**

NUFERN®

OPTICAL FIBERS — LASER & AMPLIFIER FIBERS — SUB-ASSEMBLIES — FIBER LASERS

www.nufern.com

光技術をサポートする
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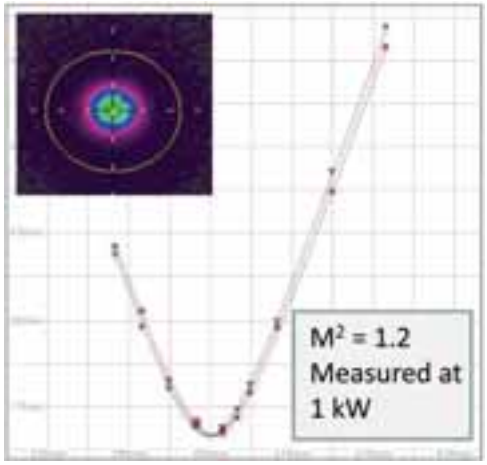
NUkW™

Kilowatt Level Laser Amplifier Platform

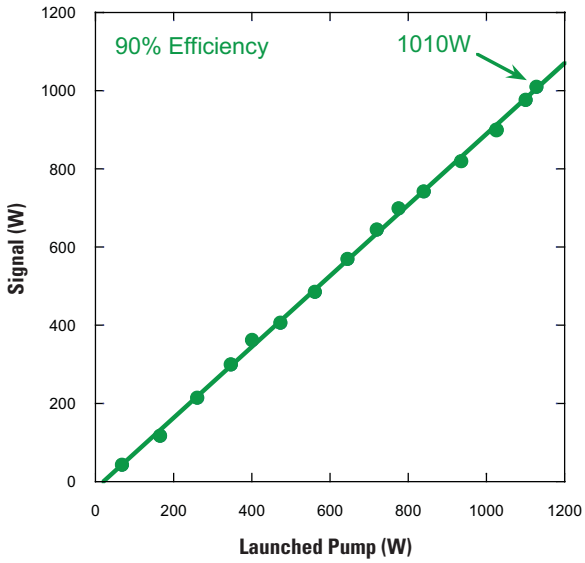
Optical Attributes

- High beam quality — $M^2 \leq 1.2$
- Long beam delivery — up to 10 m
- High optical efficiency — ~ 90% slope efficiency
- Narrow linewidth — 7 GHz demonstrated
- Polarization Maintaining option

Beam Quality



Slope Efficiency



Design Flexibility

- Remote mounting of pump diodes
- Separate electronics package
- Higher powers — multi-kW available
- Available in multiple form factors

Example System

Rack-mounted configuration, with commercial power supply, integrated heat exchanger, and 4 m beam delivery.

NuPOWER™ Laser & Amplifier Fibers

Nufern has developed world class Yb, Er:Yb, and Tm-doped fibers. Our large mode area (LMA) fiber technology has been deployed in hundreds of laser and amplifier systems since 2002. These fibers have demonstrated unprecedented power stability, narrow linewidth, extreme brightness and conversion efficiency—not just at the beginning, but over a long service lifetime.

POWERED BY NUFERN

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Nufern products are manufactured under an ISO 9001:2000 certified quality management system.
Specifications are subject to change without notice. Various standard and OEM designs are available.

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