

▶ UAW101S Amplifier

▶ TECHNOLOGY SUMMARY

The Unilase laser amplifier is a high performance, compact unit capable of delivering tens of watts of output power from low power seed lasers.

The mini-slab DPSS design and scalable architecture offers extremely high gain and high average power output with excellent beam quality.

A Unilase amplifier in combination with a pulsed seed laser assures efficient conversion of the amplified beam into green and the UV if required.

▶ APPLICATIONS

Test and Measurement

Higher Throughput Production

Scientific Research

LIDAR

▶ BENEFITS

Amplification of CW and Pulsed (ps-ns) seed lasers

High gain (10^4 - 10^5)

High Peak power handling capability

High polarization purity

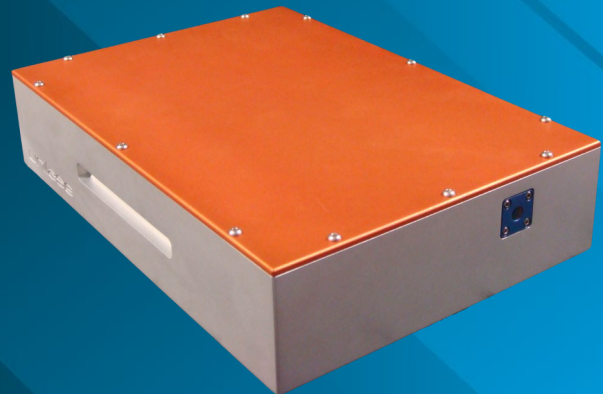
Scalable architecture

▶ FEATURES

Compact Footprint

Robust Mechanical Design

Integrated thermal management



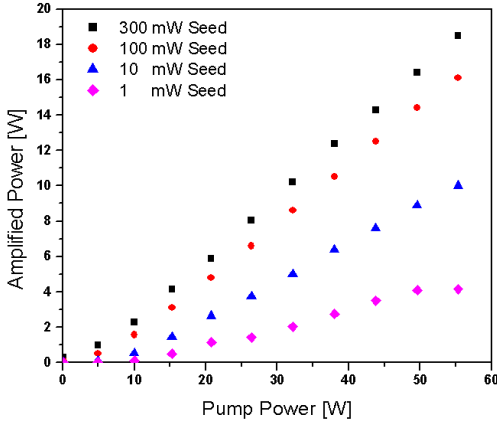
Phone: +44 (0) 20 3290 7030
E-mail: info@unilase.com
Web: <http://unilase.com/>

Unilase Ltd
Unit G02
1 Filament Walk
London SW18 4GQ
United Kingdom

unilase

▶ Performance Figures

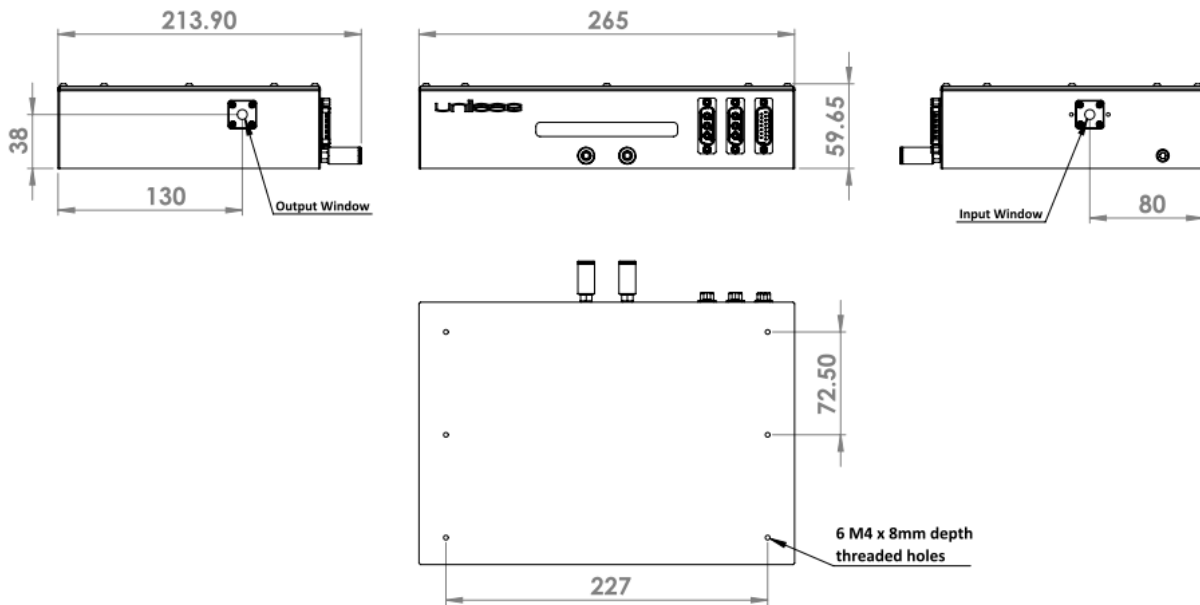
CW AMPLIFICATION



| Parameter | Value |
|-----------------------------|---|
| Material | Nd:YVO ₄ |
| Wavelength | 1064.2 nm |
| Average Input Seed Power | Amplified Power |
| 300 mW | > 18W |
| 100 mW | > 15W |
| 1.0 mW | > 4W |
| Spatial Quality | TEM ₀₀ , M ² <1.2 |
| Polarisation | > 100:1 (vertical:horizontal) |
| Cooling Method | Water |
| Operating Temperature Range | 15-35 DegC |

Typical values for CW Nd:YVO₄ seed laser

DIMENSIONS



all dimensions are in mm

Optional Accessories:

1. The amplifier can be supplied with an electronic controller (19" rack, 2U high) to provide currents for diode pump module and thermal management of the unit.
2. Unilase can supply a suitable re-circulating chiller for heat extraction.
3. Air-cooled version of the amplifier can be supplied on request.

Unilase has a policy of continuous product improvements. Specifications are subject to change without notice.

Copyright © Unilase Ltd 2016

Phone: +44 (0) 20 3290 7030
 E-mail: info@unilase.com
 Web: <http://unilase.com/>

Unilase Ltd
 Unit G02
 I Filament Walk
 London SW18 4GQ
 United Kingdom