

Introducing: A new dimension in laser technology -  
the most powerful diode-pumped modelocked lasers

# PICOPOWER

**PICOPOWER 10 IR**

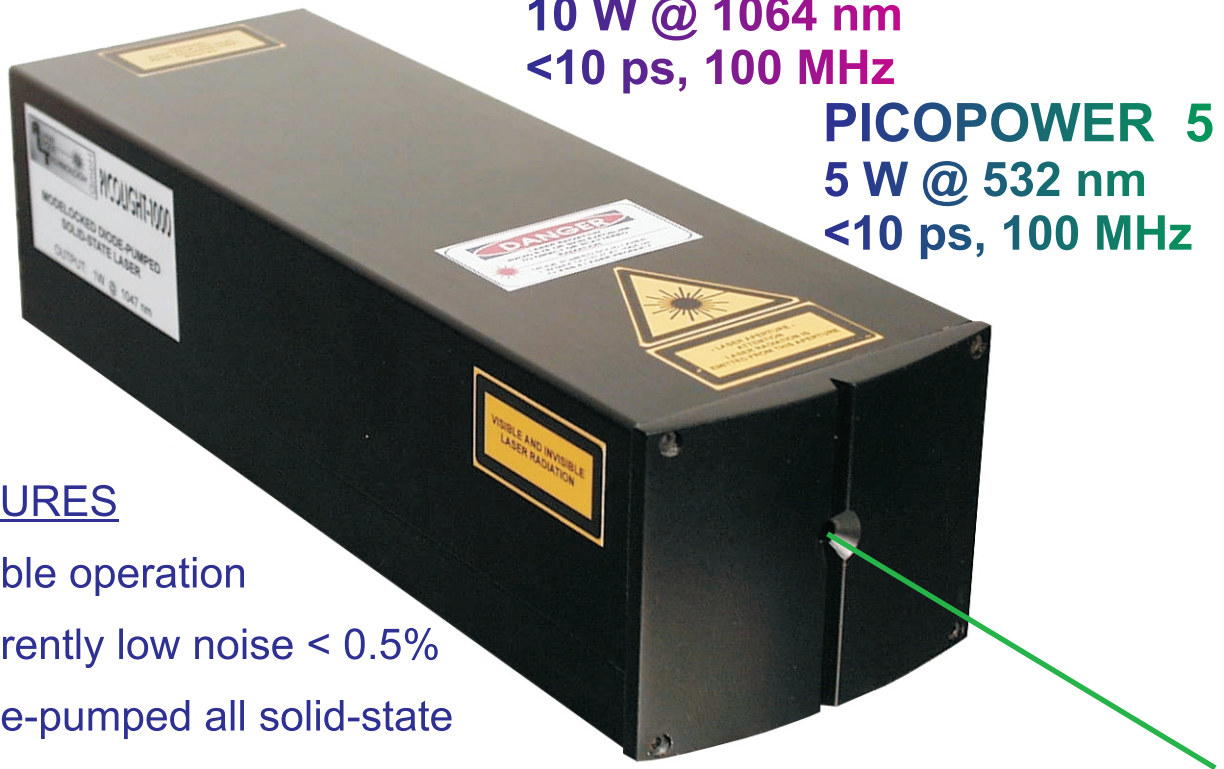
**10 W @ 1064 nm**

**<10 ps, 100 MHz**

**PICOPOWER 5 G**

**5 W @ 532 nm**

**<10 ps, 100 MHz**



## FEATURES

- reliable operation
- inherently low noise < 0.5%
- diode-pumped all solid-state
- efficient third and fourth harmonic generation
- superior to CW frequency doubled green lasers
- powerful ultrashort laser pulses: > 10 kW peak power
- uses a frequency-doubling crystal as the modelocker in the NONLINEAR MIRROR\* (Stankov mirror) configuration

\* Patent protected

## APPLICATIONS

The best laser source for:

- laser TV
- material processing
- scientific research

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# SPECIFICATIONS OF THE NONLINEAR-MIRROR MODE-LOCKED DIODE-PUMPED SOLID-STATE LASERS

## PICOPOWER 10 IR / 5 G

### OPTICAL

Active medium	Nd:YVO <sub>4</sub>
Wavelengths	1064 nm or 532 nm
Pulse duration	< 10 ps (other pulse duration on request)
Repetition rate	100 MHz (other rep. rate on request)
Beam quality	TEM <sub>00</sub>
Beam diameter (1/e <sup>2</sup> )	1 mm at the output
Divergence	1 mrad
Pointing stability	40 µrad
CW output power	PICOPOWER 10 IR @1064 nm ≥ 10 W PICOPOWER 5 G @ 532 nm ≥ 5 W
Stability of the output power	<1 % peak-to-peak (24 hours)
Polarization	> 300:1 linear
Optical noise (30 Hz - 2 MHz)	< 0.5%
Life expectancy (pump laser diode)	> 10000 hours

### ELECTRICAL

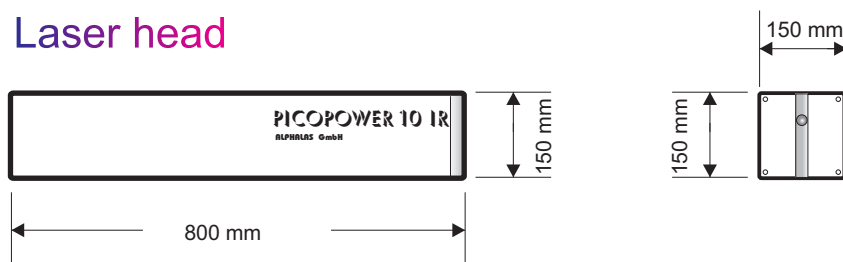
Voltage requirements	85 - 240 V AC, single phase
Power consumption	< 800 W

### MECHANICAL

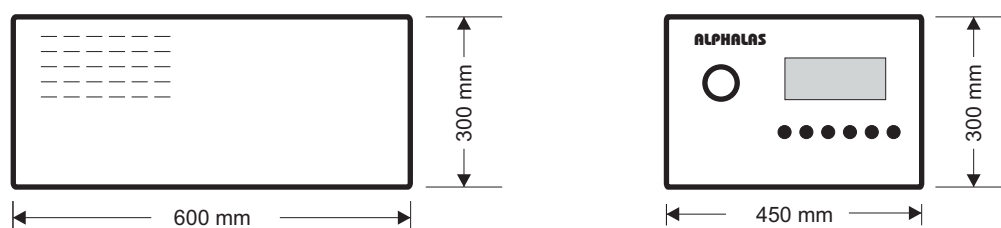
Dimensions laser head	150x150x800 mm <sup>3</sup>
Dimensions power supply and cooling unit	450x300x600 mm <sup>3</sup>
Ambient temperature	10° ... 35°C

*We reserve the right to change specifications without prior notice.*

### Laser head



### Power supply and cooling unit



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