



## **MALPHALAS**

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

# PICOPOWER



- 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

Tel.: +49-551-7706147, Fax: +49-551-7706146, E-mail: sales@alphalas.com, Web-Site: www.alphalas.com



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

### PICOPOWER 10 IR / 5 G

#### **OPTICAL**

Active medium
Wavelengths
Pulse duration
Repetition rate
Beam quality
Beam diameter (1/e²)
Divergence
Pointing stability
CW output power

Stability of the output power Polarization Optical noise (30 Hz - 2 MHz) Life expectancy (pump laser diode) Nd:YVO $_4$  1064 nm or 532 nm < 10 ps (other pulse duration on request) 100 MHz (other rep. rate on request) TEM $_{00}$  1 mm at the output 1 mrad 40 µrad PICOPOWER 10 IR @1064 nm  $\geq$  10 W PICOPOWER 5 G @ 532 nm  $\geq$  5 W < 1 % peak-to-peak (24 hours)

> 300:1 linear < 0.5%

> 10000 hours

#### **ELECTRICAL**

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

#### **MECHANICAL**

Dimensions laser head
Dimensions power supply and
cooling unit
Ambient temperature

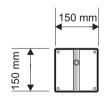
150x150x800 mm<sup>3</sup>

450x300x600 mm<sup>3</sup> 10° ... 35°C

We reserve the right to change specifications without prior notice.

# PICOPOWER 10 IR

800 mm



### Power supply and cooling unit

