



Infrared Laser Series - DPSS Lasers

## TYL IR 12W

Laser Solutions  
for Industrial Application



### Features

- High power in an extended frequency range
- Suitable for low frequency and high energy applications
- Excellent beam quality
- Remote diagnosis
- Air cooled

### Applications

- Marking and engraving
- Safety ID marking
- Material processing
- Micromachining
- Trimming
- Soldering



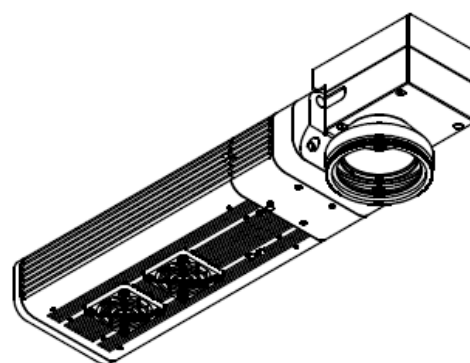
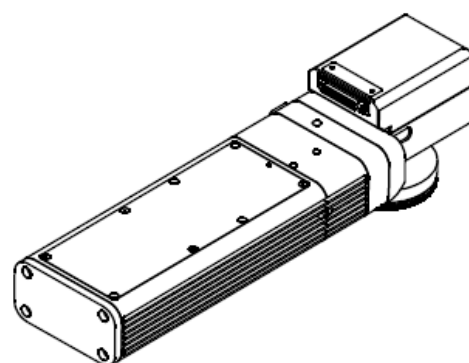
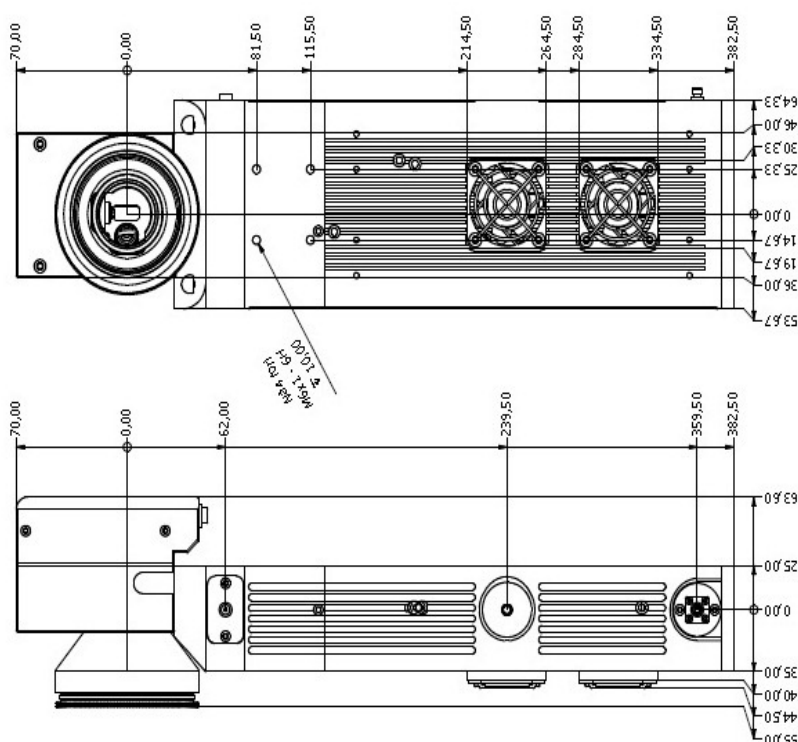
# Infrared Laser Series - DPSS Lasers

## TYL IR 12W

TYL12

|                    |                   |   |
|--------------------|-------------------|---|
| Operational mode   |                   | Q-switched DPSSL  |
| Wavelength         | [nm]              | 1064  |
| Nominal Power      | [W]               | 12 CW @ BEX output  |
| Beam quality       | [M <sup>2</sup> ] | <1.5  |
| Polarization       |                   | Linear 100:1  |
| Frequency range    | [kHz]             | 5 - 200 in Q-Switch   |
| Pulse energy       | [μ J]             | >800 @ 5kHz   |
| Pulse width        | [ns]              | >16 @ 5kHz  |
| Beam diameter (*)  | [mm]              | 3,5   |
| Power Supply       | [Vac; Hz]         | 90-240 ; 50/60  |
| Power consumption  | [W]               | <800  |
| Cooling system     |                   | Air   |
| Communication (**) |                   | RS232   |
| Focal lens         |                   | 100mm. (70x70mm.) - 160mm. (110x110mm.) - 254mm. (180x180mm.) |

\*Different Beam Diameter available upon request \*\*Ethernet available upon request



Specifications are subject to variations and updates without notice.  
Class 4 laser source.

This OEM laser component is for sale solely to qualified manufacturers, who shall provide interlocks, indicators and other appropriate safety features, in full compliance with 21 CFR 1040 and/or other applicable national and local regulations.



## TYL IR 12W Layout



GAP Laser Systems s.r.l.  
A Certified and ISO 9001:2008 Company

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custom industrial solutions

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