



HIGH ENERGY RELIABLE PICOSECOND LASER

Ultrafast Pica^{PLUS}™



Overview

The Enlight Ultrafast Pica-PLUS lasers with 6ps pulse width provides a cutting-edge and reliable light source for demanding applications where micro beam spot, precise and quality material processing, and high throughput are critical.

Pica-PLUS lasers are deliberately designed to provide excellent performance and high reliability. With high peak power and high pulse energy, Pica-PLUS lasers enable minimal thermal damage for best quality material processing and the highest possible throughput.

Incorporating Enlight's reliable and cutting-edge ultrafast fiber laser and DPSS laser technologies along with precise and advanced optical packaging design, Pica lasers are characterized by excellent TEM₀₀ beam quality, stable power and long lifetime. They are built for 24/7 industrial applications for lowest ownership cost and highest uptime.

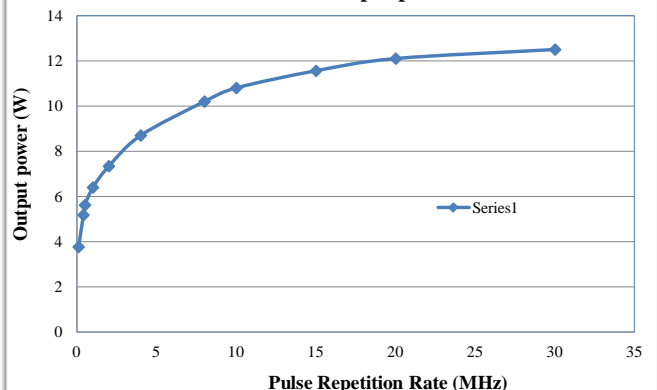
Features

- High Peak power, high pulse energy and ultrafast pulse (6 ps) for minimized thermal damage
- Advanced optical packaging and optimized design for rugged, most reliable picosecond laser in the market
- Long lifetime ensures lowest cost of ownership and high uptime
- High efficiency with stable power and most compact ultrafast laser
- Advanced and precise controlling design with burst mode control
- Excellent beam quality ($M^2 < 1.3$) and reliability
- Available in IR, Green and UV

Applications

- High-speed and precision micro-machining
- LED laser scribing and lift-off
- Precision laser marking
- Thin-film ablation
- Brittle material cutting, drilling and dicing

Pica-PLUS-5 Output power vs. PRF





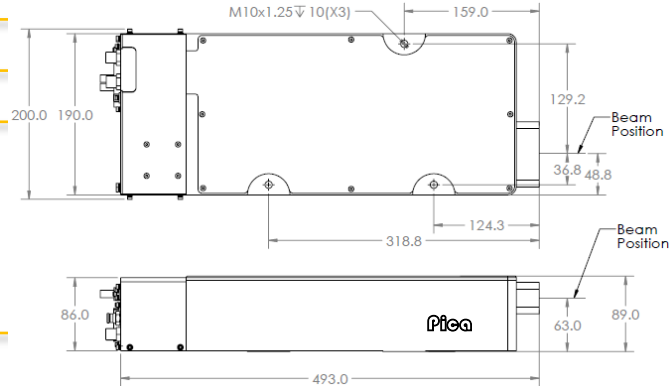
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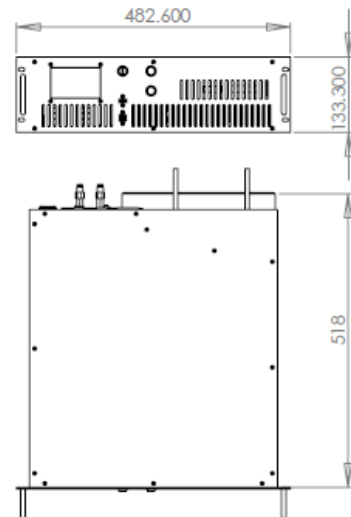
Specifications

Characteristics	Pica-PLUS-5	Pica-PLUS-20
Wavelength	1064nm/532nm/355nm	
Repetition Rate	Single -30 MHz	Single-30MHz
Output Power	3W IR@100KHz 1.5W Gren@100KHz 0.5W UV @100KHz	15W IR@100KHz 7W GRN@100KHz 4W UV@100KHz
	5W IR@1MHz 3W Gren@400KHz 1W UV @400KHz	20W IR@1MHz 8W GRN@400KHz 5W UV @400KHz
Pulse Width	6ps (+/-2ps)	
Spatial Mode	TEM ₀₀	
M ²	<1.3	
Polarization	Linear	Linear
PER	>100:1	>100:1
Beam Roundness	>90%	
Warm-up Time (from cold start)	<30 min	
Operating Temp. Range	18 to 35°C	
Operating Humidity	5-80%, non-condensing	
Non-operating Temp. Range	0-50°C	
Non-operating Humidity	8-95%, non-condensing	

Laser Head Dimensions



Power Supply Dimensions



Dimensions are in mm

Enlight Tech

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