

PS Series

Diode Pumped Picosecond Laser



Features

- Closed loop chilled up to 50W
- Small form factor, compact laser head
- Industrial grade
- Diode pumped technology
- Excellent beam quality (M^2 typically <1.3)
- Wide range of powers and harmonic options available:
 - IR 1064nm: up to 65W
 - Green 532nm: up to 35W
 - UV 355nm: Please contact factory
 - Deep UV 266nm: Please contact factory
- All-in-One single box design

Applications

- Solar Cell Processing
- Wafer inspection
- Microstereolithography
- Flow cytometry
- Pump laser for dye lasers
- Pico-Second seeder for regenerative amplifier
- Printing



Photronics Industries
International, Inc.

PS System Specifications

Wavelength (nm)	1064nm			
Model Number	PS-1064-10	PS-1064-25	PS-1064-45	PS-1064-65
Average Power	10 W	25W	45W	65W
Polarization	Vertical	Horizontal	Horizontal	Horizontal
Long term stability (8 hour)	2%		1% rms	

Wavelength (nm)	532nm			
Model Number	PS-532-4	PS-532-12	PS-532-25	PS-532-35
Average Power	4W	12W	25W	35W
Polarization	Horizontal	Vertical	Vertical	Vertical
Long term stability (8 hour)		2% rms		

Wavelength (nm)	355nm			
Model Number	PS-355-1	PS-355-5	PS-355-10	PS-355-25
Average Power	1 W	5W	10W	25W
Polarization	Vertical	Horizontal	Horizontal	Horizontal
Long term stability (8 hour)		3% rms		

Wavelength (nm)	266nm		
Model Number	PS-266-0.2	PS-266-1	PS-266-3
Average Power	200 mW	1W	3W
Polarization	Vertical	Horizontal	Horizontal
Long term stability (8 hour)		5% rms	

Repetition rate	~72MHz		
Pulse width	<15ps		
Spatial mode profile	TEM ₀₀		
M2	<1.3 (typical <1.2)		<1.5
Output Beam Diameter	1 mm (Nominal)		
Beam divergence	<2 mrad		
Beam Ellipticity	<15%		
Beam Point Instability	<50 urad		
Ambient Temperature	15 to 30 °C (59 to 86 °F) Operating Range		
Relative Humidity	Non condensing, 90% Max		

Laser Head Dimensions* (LxWxH)	31" x 10" x 3.75"***	34" x 12" x 3.75"*** (plus extension for harmonic options)
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* For 4th harmonic dimensions, please contact the factory.

** 4.1 including desiccant



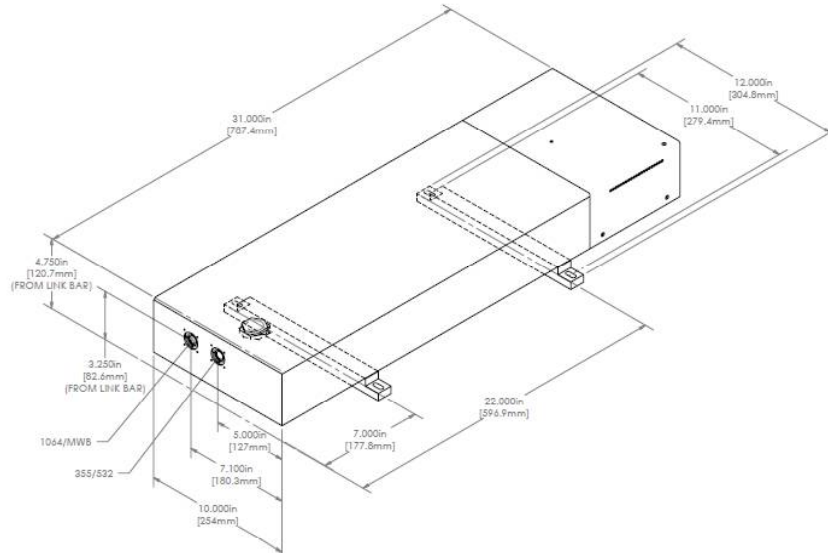
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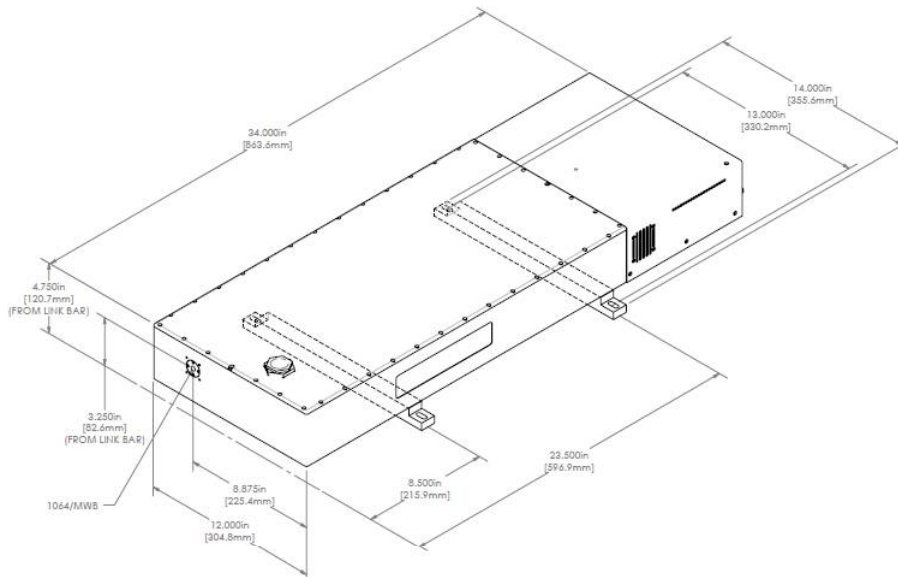
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Website: www.Photonix.com

Dimensional Drawings

Laser Head PS-1064-10 thru -45 & Harmonics



Laser Head PS-1064-65



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Due to Photonics Industries' commitment to continuous product improvement, specifications and drawings are subject to change without notice.

Photonics Industries conforms to provisions of US 21 CFR 1040.10 & 1040.11 and is made under one or more US patents listed below:
7,346,092; 7,082,149; 7,079,557; 6,999,483; 6,980,574; 6,961,355; 6,842,293; 6,762,405; 6,690,692; 6,587,487; 6,584,487; 6,366,596;
6,327,281; 6,356,578; 6,246,707; 6,229,839; 6,108,356; 6,061,370; 6,028,620; 5,936,938; 5,898,717 and Pending Patents

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