

# SN SERIES

*High Pulse Energy and High Repetition Rate  
Sub Nanosecond Lasers*



## Features

- Sub ns pulse width
- High peak power
- High repetition rate
- Excellent beam quality ( $M2 < 1.5$ )
- Closed loop chilled
- Small form factor, compact laser head
- Industrial grade
- Diode pumped technology
- Wide range of powers and harmonic options available

## Applications

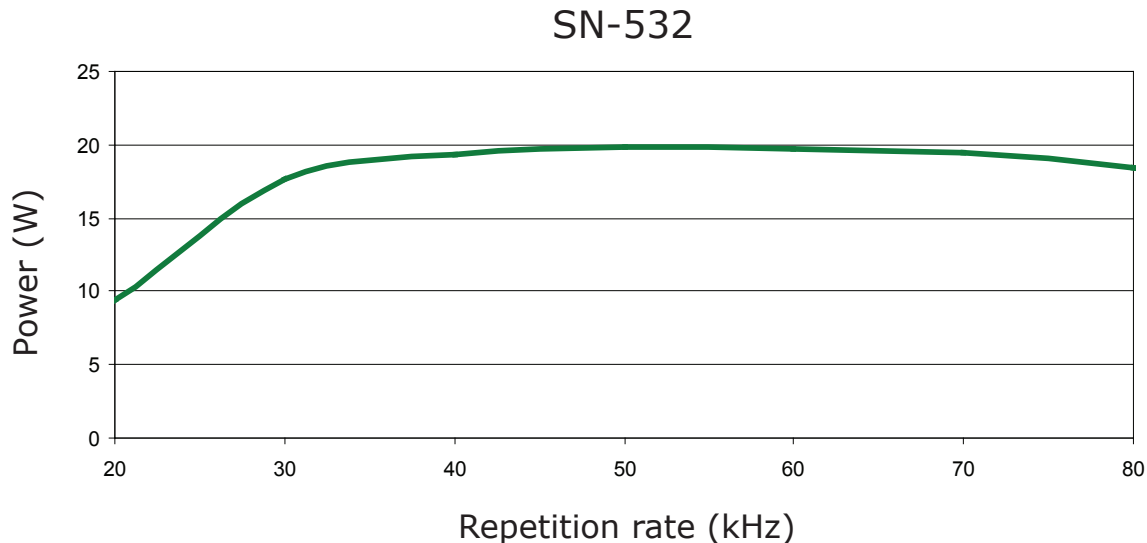
- Glass cutting
  - e.g., Gorilla™ glass cutting
- FPCB marking system
- Intraglass/subsurface marking
- Ablative drilling
- Scribing
- Solar cell processing
- Pump laser
- Lidar



# SN System Specifications

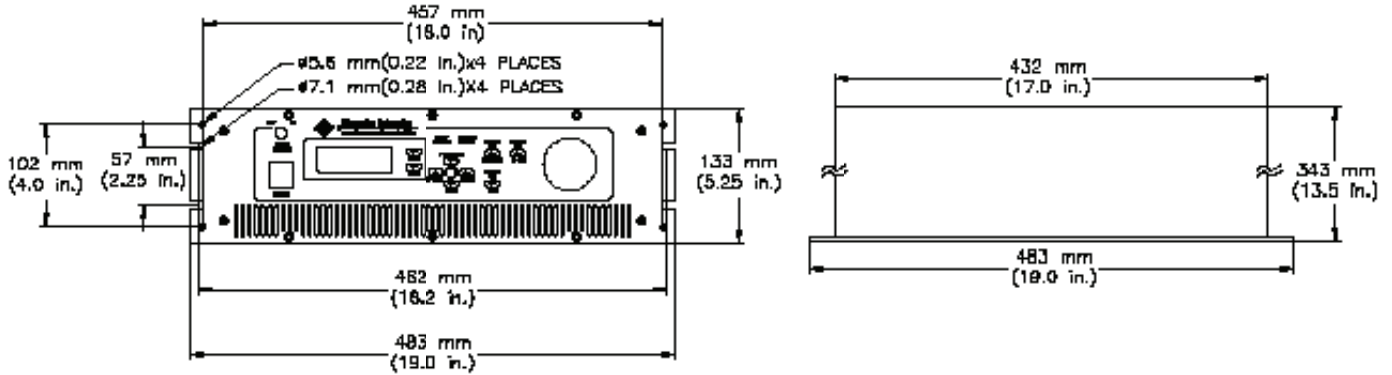
<b>Model Number</b>	SN-1064-40	SN-532-25	SN-355-15
<b>Wavelength</b>	1064nm	532nm	355nm
<b>Average Power (@ 80kHz)</b>	40W	25W	15W
<b>Model Number</b>	SN-1064-25	SN-532-13	SN-355-8
<b>Wavelength</b>	1064nm	532nm	355nm
<b>Average Power (@ 80kHz)</b>	25W	13W	8W
<b>Model Number</b>	SN-1064-10	SN-532-5	SN-355-3
<b>Wavelength</b>	1064nm	532nm	355nm
<b>Average Power (@ 80kHz)</b>	10W	5W	3W
<b>Pulse width (nominal)</b>	<1ns		
<b>Repetition Rate</b>	20 to 80kHz		
<b>Spatial mode profile</b>	TEM00		
<b>M2</b>	<1.5		
<b>Output Beam Diameter</b>	2mm (Nominal)		
<b>Beam divergence</b>	<3 mrad		
<b>Beam Point Instability</b>	<50 urad		
<b>Ambient Temperature</b>	15 to 30 oC (59 to 86 oF) Operating Range		
<b>Relative Humidity</b>	Non condensing, 90% Max		
<b>Cooling</b>	Closed Loop Chiller		
<b>Laser Head Dimensions</b>	12" (W) x 3.75" (H) x 32" (D)		
<b>Power Supply Dimensions</b>	19" (W) x 5.25" (H) x 13.5" (D)		
<b>Options</b>	Multi Wavelength Output (MWO) selectable 1064, 532, or 355nm		
	Internal AOM for external gating, FPS and PEC (20% specified power reduction)		

## Performance Curve

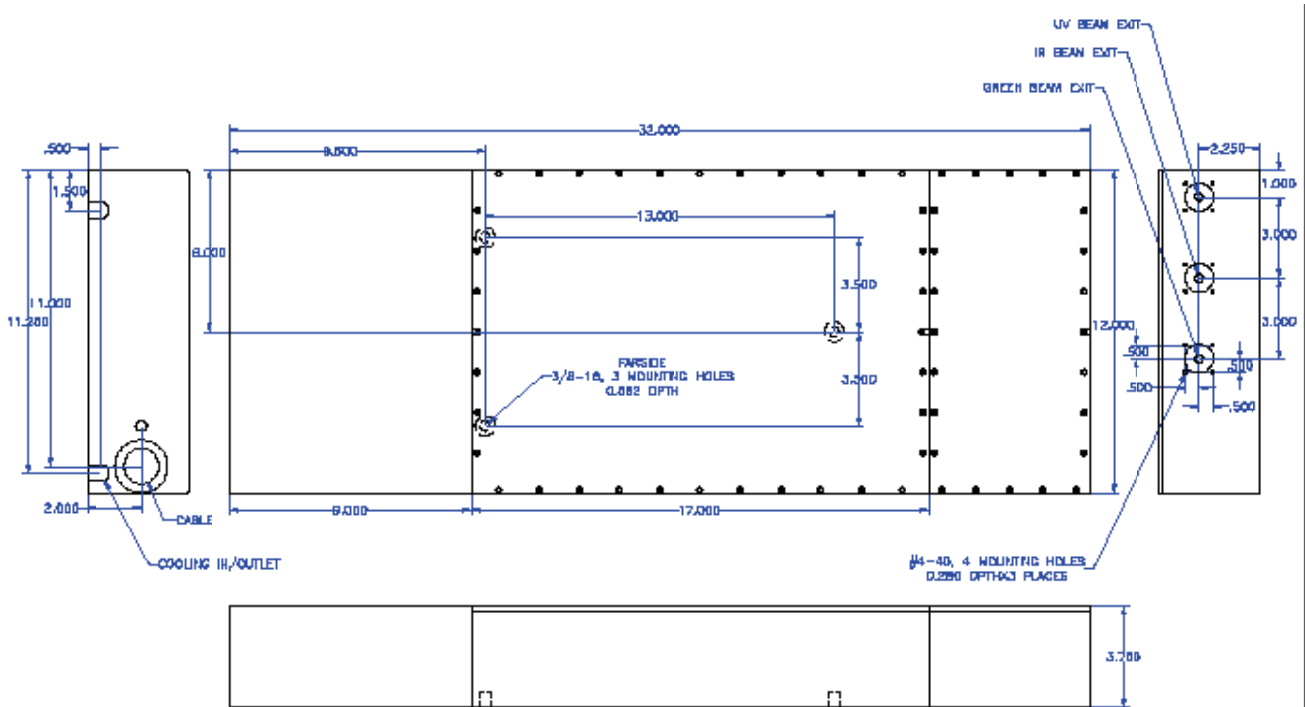


# Dimensional Drawings

## SN Controller



## SN Laser Head





### **US Main Office**

390 Central Ave, Bohemia, NY, 11716

Phone: 631-218-2240

Fax: 631-218-2275

E-Mail: [info@photonix.com](mailto:info@photonix.com)

Website: [www.Photonix.com](http://www.Photonix.com)

### **Korea Office**

703 Sogong Bldg, 352-5 Gugal-Dong

Giheung-gu, Yongin City

Gyeonggi-Do, 446-569 Korea

Tel: +82-31-284-9520

Fax: +82-31-284-9521

Contact: Sang-Moon Kim

Email: [kimsm@photonix.com](mailto:kimsm@photonix.com)

### **Japan Office**

Rokusan Bldg. 9F, Funamachi 7

Shinjuku-ku, Tokyo 160-0006, Japan

Tel: [81] 03-6423-1805

Fax: [81] 03-6423-1806

Email: [kseita@photonix.co.jp](mailto:kseita@photonix.co.jp)

### **China Office**

Room 1401, B8

No 208 XingHai Street, Suzhou Industrial Park

Suzhou 215021, P. R. China

Tel: 86-512-6763 5761

Fax: 86-512-6763 5762

Email: [china@photonix.com](mailto:china@photonix.com)

Website: <http://www.photonix.com.cn/>

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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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