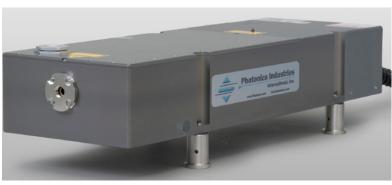
DSH-532 Series

Nd:YVO₄ Green Lasers



Features

- 3 Models: 15 W, 35 W, & 48 W* of Green Power
- Patented Intracavity Green Generation
- Compact, Rugged, Monolithic Laser Head
- Total Pulse Control
- TEM₀₀ Beam with Typical $M^2 < 1.1$
- Pulse Rates from 1 Hz to 500 kHz
- RS232 Computer Control
- Field Replaceable Pump Diodes

As the first company to pioneer intracavity harmonic generation technologies and introduce the very first intracavity UV lasers in 1996, Photonics Industries remains an industry leader in producing efficient, simple, low cost of ownership (COO) lasers. Its DSH Series offer Green power from 15 W to 48 W with the best mode quality in the market.

Owing to key patented technologies, intracavity harmonic generation is inherently a more efficient harmonic conversion that provides better pulse to pulse stability and mode quality as well as a much simpler, more compact laser configuration. In addition to its patented intracavity green generation, the end-pumped geometry of Photonics Industries' DSH Series lasers results in even better mode quality and field replaceable pump diodes, for the lowest COO possible.

Phone: 631-218-2240

Website: www.Photonix.com

* For lower power air cooled models please see our DCH Series.



Fax: 631-218-2275

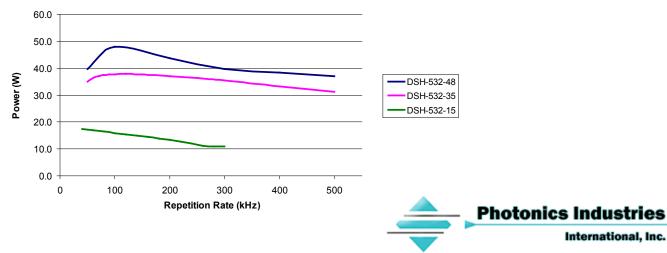
1800 Ocean Ave, Ronkonkoma, NY, 11779 E-Mail: info@photonix.com

DSH 532 System Specifications¹

Model		DSH-532-15	DSH-532-35	DSH-532-48
Wavelength			532 nm	
Average Power		15 W @ 40 kHz	35 W @100 kHz	48 W @ 100 kHz
Pulse Energy		~0.375 mJ @ 40 kHz	~0.35 mJ @ 100 kHz	~0.48 mJ @ 100 kHz
Pulse Width (nominal)		~30 ns @ 40 kHz	~60 ns @ 100 kHz	~40 ns @ 100 kHz
Repetition Rate		Single Shot to 300 kHz Single Shot to 500 kHz		
Pulse to Pulse Instability		<2% rms		
Polarization Ratio		Vertical; >500:1		
4σ Beam Diameter @ exit (nominal)		~ 0.7 mm	~1 mm	
Beam Divergence (Full Angle Far Field)		<1.5 mrad	<2.5 mrad	
Beam Circularity @ exit		>85%		
Spatial Mode TEM ₀₀		M ² <1.1	M^2	<1.2
Beam Pointing Stability		<25 μrad		
Beam Position Accuracy		< 2.5 mm and < 10 mrad from nominal		
Long Term Instability (8 hr±2°C)		<± 2%		
Interface		RS 232 / GUI / External TTL Triggering		
Warm Up Time		<5 min from standby		
		<15 min from cold start		
Electrical Requirement		50 to 60 Hz or 100 to 120 V or 200 to 240 V		
Power Consumption (excluding chiller)		<600 W typical		
Dimensions	Laser Head	7.5 in x 4.1 ²	² in x 24 in	8.5 in x 4.1 ² in x 24 in
(W x H x L)	Controller	19 in x 3.5 in (2U) x 10.25 in		
Weight	Laser Head	41.5	lbs	43 lbs
	Controller	10 lbs		
Relative Humidity		Non-condensing, 90% Max		
Umbilical Length		3 meter (10 feet)		
Ambient Temperature		15° to 35°C (59° to 95°F) Operating Range		
Storage Conditions		-10°C to 40°C; Sea Level to 12,000 m; 0% to 90% RH, non-condensing		
¹ Measuremen	its taken at optimal PRF and po	ower after laser is fully warmed up.		

¹Measurements taken at optimal PRF and power after laser is fully warmed up.

Performance Curve



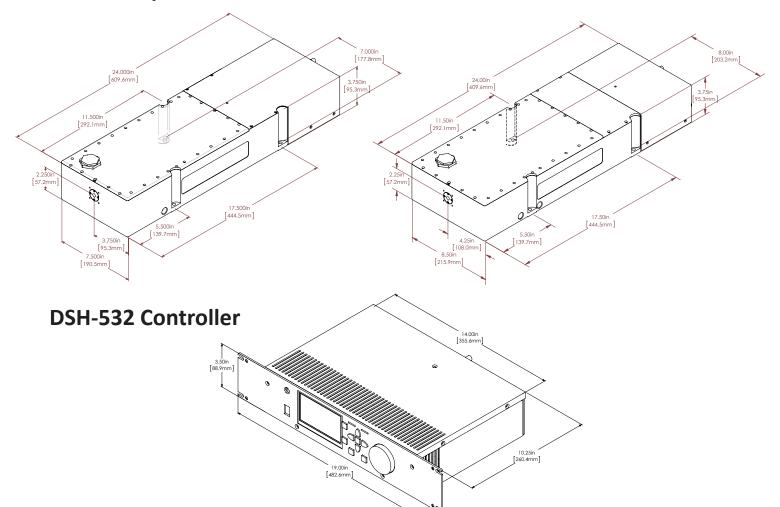
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E-Mail: info@photonix.com Website: www.Photonix.com

² 4.1" includes height of desiccant

DSH-532-15/35 Laser Head

DSH-532-48 Laser Head



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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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