



Talisker HE 532-6

Picosecond Industrial Laser

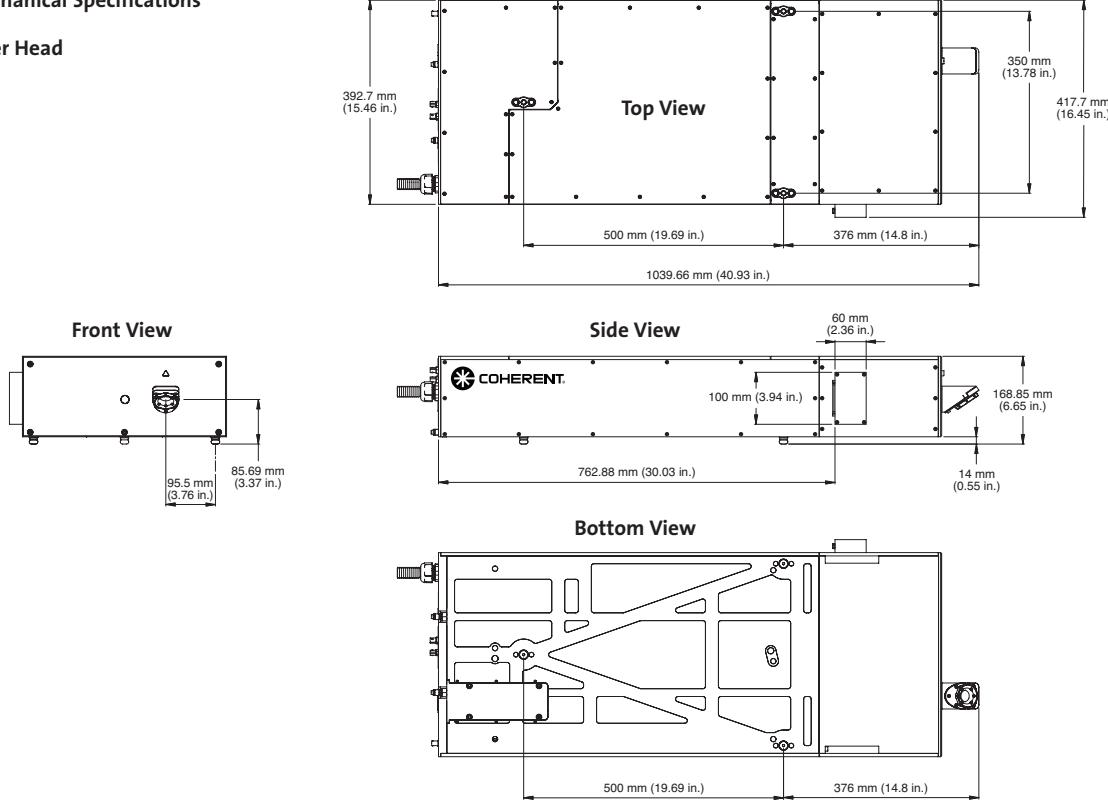


Features

- Free-space amplifier seeded by fiber oscillator
- Excellent beam quality ($M^2 < 1.3$)
- Optimized for single wavelength use at 532 nm
- Excellent pulse stability, no first pulse suppression required
- Shock, vibration, and thermal cycling tests for every laser
- Smart power supply with Ethernet, USB, and RS-232 control
- PermAlign™ solder-bonded optics technology
- Ultra-long-life AAA™ (Aluminum-free Active Area) laser diode material

Mechanical Specifications

Laser Head



Superior Reliability & Performance

Talisker™ HE 532-6

Picosecond Industrial Laser

System Specifications¹

Talisker HE	532-6
Wavelength (nm)	532
Average Output Power (W)	6
Pulse Width (ps)	<15
Pulse Energy (μJ)	>100
Repetition Rate (kHz)	50
Pulse-to-Pulse Stability %(rms, 1σ)	<3
Long-Term Stability %(rms, 8 hours)	<2
Spatial Mode	TEM ₀₀ (M ² <1.3)
Beam Diameter (1/e ² mm)	2.2 ±0.4
Polarization Ratio	>100:1 vertical
Beam Circularity (%)	>85
Warm-Up Time	<60 minutes from cold start
Ambient Temperature Range (°C)	
Operating	15 to 30; ±1
Cooling	
Head	Closed-loop water-water or water-air recirculator
Power Supply	Air-cooled
Laser Power Consumption (single phase)	1.3 kW maximum, 100 to 240 VAC, 50 to 60 Hz (auto-ranging)
Humidity (%)	10 to 80 RH, dew point <20°C
Weight	
Laser Head	75 kg (165.3 lbs.)
Power Supply	30 kg (66.1 lbs.)
HV Power Supply	15 kg (33.07 lbs.)

Coherent follows a policy of continuous product improvement. Specifications are subject to change without notice.

Coherent's scientific and industrial lasers are certified to comply with the Federal Regulations (21 CFR Subchapter J) as administered by the Center for Devices and Radiological Health on all systems ordered for shipment after August 2, 1976.

Coherent offers a limited warranty for all Talisker HE lasers. For full details of this warranty coverage, please refer to the Service section at www.Coherent.com or contact your local Sales or Service Representative.



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