

[532nm.com](#) > AVIA LASER

AVIA Solid-State Q-Switched Laser

Coherent Avia 532-30, Avia 532-38, Avia 532-45

Laser Innovations offers sales, service and support for your Coherent Avia Laser System. We service all of the 532nm Avia Laser Systems as well as the 355nm Avia Laser Systems. We even support older Avia Systems discontinued by Coherent.



- [Verdi V2](#)
 - [Verdi V5](#)
 - [Verdi V6](#)
 - [Verdi V8](#)
 - [Verdi V10](#)
 - [Verdi V12](#)
 - [Verdi V18](#)
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- [Viper V5](#)
 - [Viper V8](#)
 - [Viper V10](#)

Specifications:

AVIA LASER

	AVIA 532-30¹	AVIA 532-38²	AVIA 532-45³
Wavelength	532 nm		
Output Power	≥ 30W	≥ 38W	43W @ 90 kHz 45W @ 120 kHz 41W @ 150 kHz 37W @ 180 kHz
Output Power Stability (average over 8 hours)	< ±2%		
Pulse			
Repetition Rate	Single Shot to 300 kHz		
Nominal	120 to 150 kHz		
Optimized	120 kHz		
Pulse Width	< 60 ns		
Pulse-to-Pulse Energy Stability	< 5% rms 1σ		
Beam			
Divergence, Full Angle (ref. baseplate temp.)	< 0.4 mrad		

Spatial Mode	TEM ₀₀ (M ² < 1.3)	
Pointing Drift (ref. baseplate temp.)	< 25 µrad/°C	
Polarization Ratio	> 100:1 Horizontal	
1/e ² Beam Diameter	3.5 ± 0.35 mm	
Circularity	> 85%	
Bore-sight Accuracy (ref. mounting features on head)	±1 mm & ±10 mrad	
Beam Exit Location (XY ref. bottom/left baseplate)	5.46 x 5.02 in (138.68 x 127.51 mm)	

Operating Conditions

Warm-up time (typical)	< 15 min	
Stand-By	< 40 min	
Ambient Temperature		
During operation	+15°C to +35°C	+10°C to +30°C
Power off, short term	-25°C to +65°C	-25°C to +65°C
Relative Humidity (non-condensing)	10 to 80%	
Cooling - Power Supply	Air-Cooled	
Cooling - Laser Head		
Flow Rate, recommended	Water-cooled 1.5 to 2.0 gal/min (5.7 to 7.6 l/min)	Water-cooled 1.5 to 2.0 gal/min (5.7 to 7.6 l/min) 18°C to 22°C
Temperature, recommended	18°C to 22°C	
Heat Load (max)		
Laser Head	800W	900W
Power Supply	400 W	800 W

Electrical

Voltage (auto-ranging) Single-Phase, 3-Wire	100 to 240 VAC	
Frequency (auto-ranging)	50 to 60 Hz	
Power Consumption	800 to 1300 W	900 to 1700 W

Mechanical

Weight		
Laser Head	110 lb (50 kg)	
Power Supply	55 lb (25 kg)	
Umbilical Length	15 ft (4.6 m)	
Dimensions, approx. for shipping (LxWxH)		
Laser Head (w/o umbilical)	50 x 11 x 12 in (127 x 28 x 31 cm)	
Power Supply	22 x 20 x 10 in (56 x 51 x 26 cm)	

- ¹ All tests measured at 120 kHz and an output power of 30 W, unless specified otherwise.
² All tests measured at 120 kHz and an output power of 38 W, unless specified otherwise.
³ All tests measured at 120 kHz and an output power of 45 W, unless specified otherwise.

Specifications are for reference only and do not constitute warranty specifications on serviced lasers by Laser Innovations.

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