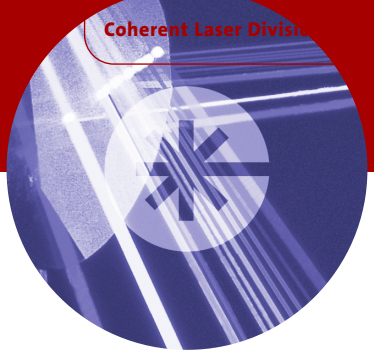


INNOVA 300C MOTOFRED

INNOVA 300C MOTOFRED

Output Power Specifications

SHG[1]		High-Power Option[2]		Fundamental[3]	
Wavelength (nm)	Power (W)			Wavelength (nm)	Power (W)
				Multiline Visible	5.00
264.3	0.02	264.3	0.02	528.7	0.35
257.2	0.10	257.2	0.20	514.5	2.00
250.8	0.015	250.8	0.03	501.7	0.40
248.2	0.06	248.2	0.075	496.5	0.60
244.0	0.10	244.0	0.125	488.0	1.50
238.2	0.03	238.2	0.04	476.5	0.60
229.0	0.01	229.0	0.015	457.9	0.35
				Multiline UV[4]	0.40
				363.8[4]	0.14
				351.1[4]	0.14

Beam Parameters[5]

	SHG	Fundamental (514.5 nm)
Beam Diameter[5] (mm)	0.6-0.9[6]	1.7[7]
Beam Divergence[8] (mrad)	0.5-0.85	0.5
Output Polarization	100:1 horizontal	100:1 vertical
Power Stability[9]	±1.0%	±0.5%

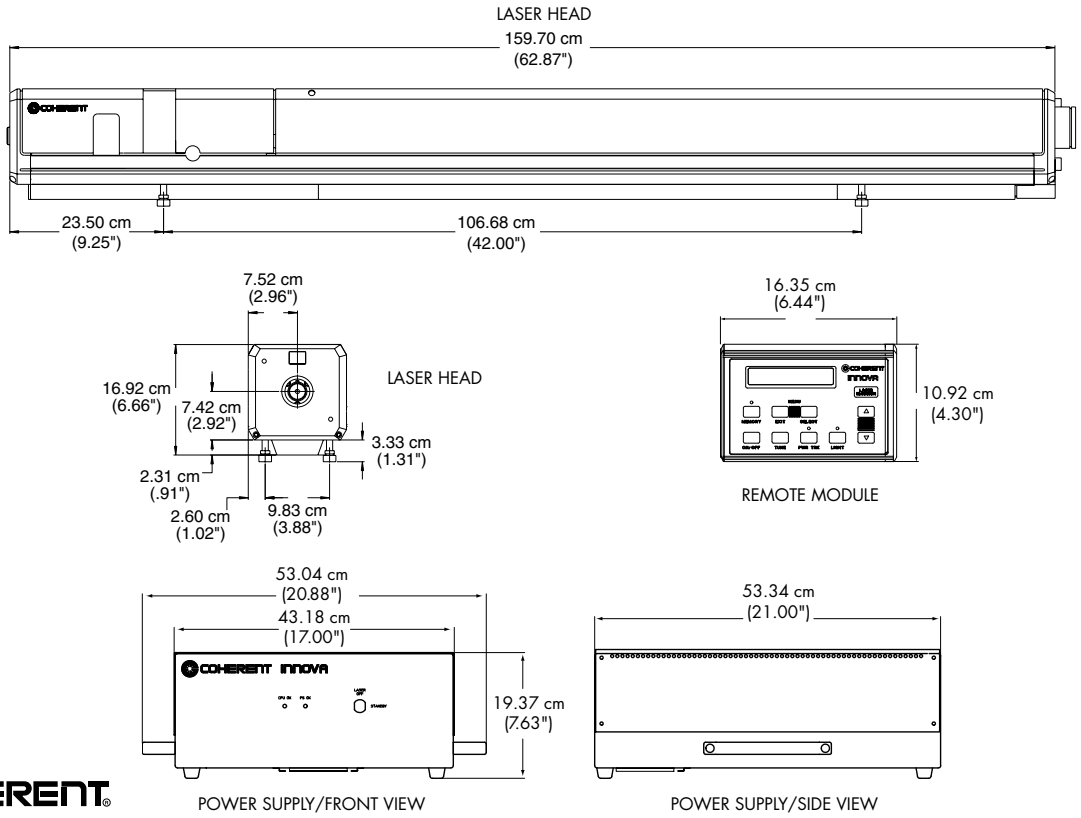
[1] At time of purchase, customer must indicate which frequency-doubled wavelength is to be factory-tested and guaranteed. Guaranteed performance at additional wavelengths is available at a supplementary charge to cover optics (where required) and testing.
[2] Optional specifications. Requires purchase of High-Power SHG Option.
[3] Fundamental output power is guaranteed for Multiline Visible, 514.5 and 488.0 nm wavelengths. Guaranteed performance at additional wavelengths is available at a supplementary charge to cover optics (where required) and testing.
[4] Additional optics and supplementary charge required for guaranteed performance at Multiline UV, 351.1 and 363.8 nm.
[5] Beam parameter values typical.
[6] Beam diameter measured at $1/e^2$ points 1.0 meter from output bezel.
[7] Beam diameter measured at $1/e^2$ points, at the output coupler.
[8] Full-angle measurement.
[9] Performance in light regulation with PowerTrack™ over a 30-minute period following a one-hour warm-up.

Utility and Environmental Requirements

	Specifications
Input Power	3-phase with ground
Voltage	208 ±10% vac, 50 or 60 Hz
Maximum Current Draw	60 amp/phase @ 208 vac
Cooling-Water Flow Rate	8.5 liter/min (2.2 gallon/min)
Cooling-Water Pressure	1.41 to 4.23 kg/cm³, 20 to 60 psi
Cooling-Water Incoming Temperature	10 to 35°C (50 to 95°F)
Purge	0.5-1.0 SCFH (Standard Cubic Feet per Hour) Scientific Grade N_2-99.999%
System Weights	
Laser Head	Crated 122 kg (270 lb), Uncrated 54 kg (120 lb)
Power Supply (optional)[3]	Crated 67 kg (147 lb), Uncrated 39 kg (86 lb)

300C MOTOFRED

The Innova™ 300C MotoFred™ ion laser utilizes intra-cavity frequency doubling in BBO crystals to produce deep-UV, CW at seven wavelengths light in the range 229-264.3 nm. This advanced small-frame system features a motorized crystal shifter and active stabilization for enhanced user-productivity. With deep-UV output powers up to 0.2W, the 300C MotoFred is ideal for moderate volume manufacturing and advanced research applications.



COHERENT

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

Coherent offers a limited warranty for all Innova systems. For full details of this warranty coverage, please refer to the Service and Support section at www.CoherentInc.com or contact your local Sales or Service Representative.

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