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High Powered Diode Laser

Our standard lasers deliver up to 400 mW of power through a 100 um fiber, and high power capability upto 1,500 mW is available if requested.



Specifications

Spatial Mode	<ul style="list-style-type: none">• Multi-Transverse.
Standard Wavelengths	<ul style="list-style-type: none">• 670 nm, 785 nm, 830 nm, and 860 nm.
Polarization	<ul style="list-style-type: none">• Horizontally polarized.
Wavelength Accuracy	<ul style="list-style-type: none">• ± 0.1 nm
Wavelength Repeatability (ON/OFF)	<ul style="list-style-type: none">• STD ~ 0.15 cm^{-1}
Linewidth	<ul style="list-style-type: none">• ~ 1 cm^{-1}
Output Beam	<ul style="list-style-type: none">• Free space (FS) or an SMA or FC fiber optical coupler.
Power Output	<ul style="list-style-type: none">• 100 mW to 1500 mW.
Power Monitor	<ul style="list-style-type: none">• Photodiode
Power Requirements	<ul style="list-style-type: none">• 3.5 Amps min. at 12 VDC.
Estimated Lifetime	<ul style="list-style-type: none">• > 9,000 hours (> one year)
Warranty	<ul style="list-style-type: none">• One year for 785 nm and greater wavelengths; 3,000 hours for 670 nm.

Temperature Controlled • Via Thermoelectric (TE) coolers.

Ambient Operating Temperature • 15-40°C (Thermal shutdown protection for over temperature.)

Environmental Protection • Laser diode and optics sealed

Dimensions • 9.25" x 2.5" x 4.25" (23 cm x 6 cm x 11 cm)

Weight • ~ 4.4 lbs. (2 kg)

High Power Coupling @ 785 nm

Output Power	Fiber Core Diameter
150 mW to 250 mW	50 um
250 mW to 1200 mW	100 um
1200mW to 1500mW	200 um



ATEX ZONE 0 CERTIFIED



ITS07ATEX15679X With Safe-Laser Interlock™

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