

The Friend of Lasers

TW634R643 Series 634-643nm Wavelength Tunable Narrow Linewidth Laser System up to 10mW

Overview

The TW634R643 series wavelength tunable diode laser is ideal for applications that require a wavelength range of 634-643nm and output power levels up to 10mW. The laser is a high-end custom high stability, low noise, narrow linewidth, wavelength tunable product with a linewidth of less than 60pm and a tuning range of 4nm. The laser is widely used in scientific research and teaching, such as holographic imaging, Raman, atomic clock, coherent detection, and many other applications.



Specifications

Model Number		TW634R643-XZ
Wavelength range of roughly tuning (nm)		634-643
Output power (mW)		>10 (X=10)
Transverse mode		Near TEM ₀₀
Operating mode		CW
Power stability (rms, over 4 hours)		<3% (Z=E), <1% (Z=D)
Spectral linewidth (nm)		<0.1
Beam diameter at aperture (1/e ² , mm)		~3.0
Beam divergence, full angle (mrad)		<1.0
Polarization ratio		>50:1, Horizontal ±5 degree
Warm-up time (minutes)		<15
Beam height from base plate (mm)		45.5
Operating temperature (°C)		20-30
Dimensions of laser head (mm)		125(L)×110(W)×67(H) mm ³
Power supply	Current	0-150mA
1	TEC	7-12kΩ
F	PZT voltage	0-100V
	Dimensions	299(L)×174(W)×120(H) mm ³
Expected lifetime (hours)		10,000
Warranty period		10 months
FDA Compliance		FDA CDRH Title 21 CFR 1040.10/11 Class IIIb

Remarks:

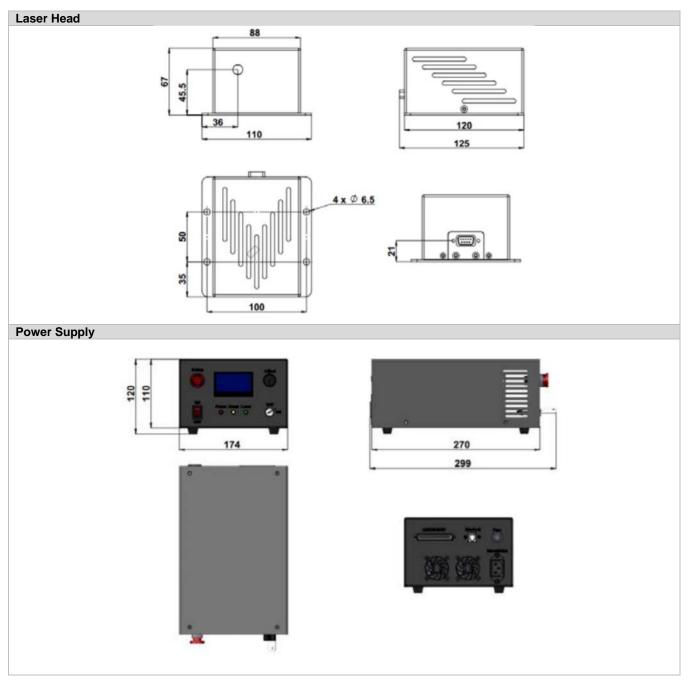
• Specifications of the CW laser is based on the laser performance at full power output after the specified warmup period. The stability of output power may change when output power is adjusted at a different power level.



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Outline Dimensions (unit: mm)



Note: The above specifications are subject to change without notice.