



## DL800 Series 800nm Diode Laser System up to 500mW

### Overview

The DL800 series diode laser is ideal for applications that require a wavelength of 800nm and output power levels up to 500mW. The laser features a compact design, long operating lifetime, easy operation, and FDA-compliant system with driver. The laser is widely used in measurement, spectrum analysis, communication, and many other applications.



### Specifications

<b>Model Number</b>		<b>DL800R-XYPQ</b>	
Wavelength (nm)		800±5	
Output power (mW)		>100 ( <b>X=100</b> )	>300 ( <b>X=300</b> ), >500 ( <b>X=500</b> )
Transverse mode		Round	
Operating mode		CW	
Power stability (rms, over 4 hours)		<1% ( <b>P=D</b> )	
Beam diameter at aperture (1/e <sup>2</sup> , mm)		~2.0	
Beam divergence, full angle (mrad)		~10	~20
Warm-up time (minutes)		<5	
Beam height from base plate (mm)		24.8	
Operating temperature (°C)		10-35	
Dimensions of laser head (mm)		143.5(L)×73(W) ×46.2(H) mm <sup>3</sup>	
Weight of laser head (kg)		0.7 kg	
Power supply options			
Elite Power Supply ( <b>Y=E</b> )	Input voltage	85-264VAC	
	Dimensions	171(L) ×130(W) ×62.2(H) mm <sup>3</sup>	
	Weight	1.2 kg	
	Notes	Fixed output power, frequency 1Hz-30kHz	
Laboratory Power Supply ( <b>Y=L</b> )	Input voltage	85-264VAC	
	Dimensions	188.6(L) ×155(W) ×92(H) mm <sup>3</sup>	
	Weight	1.5 kg	
	Notes	Adjustable output power, frequency 1Hz-30kHz	
A Version Laboratory Power Supply ( <b>Y=T</b> )	Input voltage	100-240VAC	
	Dimensions	162(L) ×144(W) ×70(H) mm <sup>3</sup>	
	Weight	1.0 kg	
	Notes	Adjustable output power, LCD display, frequency 30kHz-100kHz	
Modulation option		None ( <b>Q=0</b> )	
	TTL	1Hz-1kHz ( <b>Q=T1</b> ), 1kHz-10kHz ( <b>Q=T2</b> ), 10kHz-30kHz ( <b>Q=T3</b> ), 30kHz-100kHz ( <b>Q=T4</b> )	
	Analog	1Hz-1kHz ( <b>Q=A1</b> ), 1kHz-10kHz ( <b>Q=A2</b> ), 10kHz-30kHz ( <b>Q=A3</b> ), 30kHz-100kHz ( <b>Q=A4</b> )	
Expected lifetime (hours)		10,000	
Warranty period		10 months	
FDA Compliance		FDA CDRH Title 21 CFR 1040.10/11 Class IV	

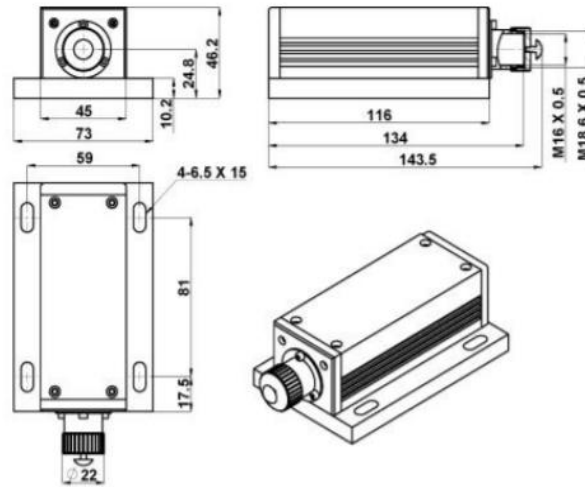
#### Remarks:

- 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.



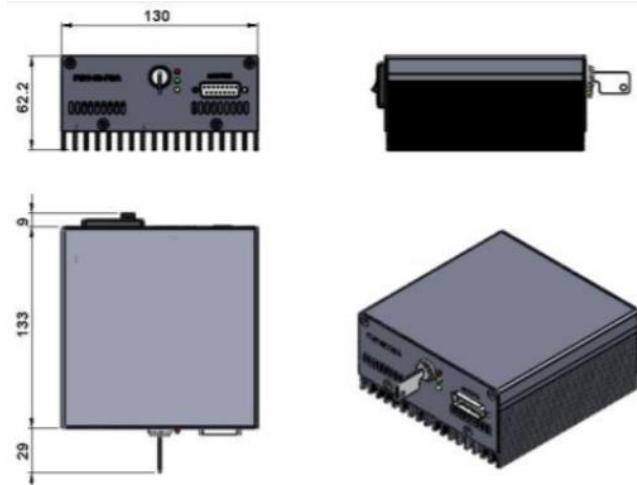
**Outline Dimensions (unit: mm)**

**Laser Head**

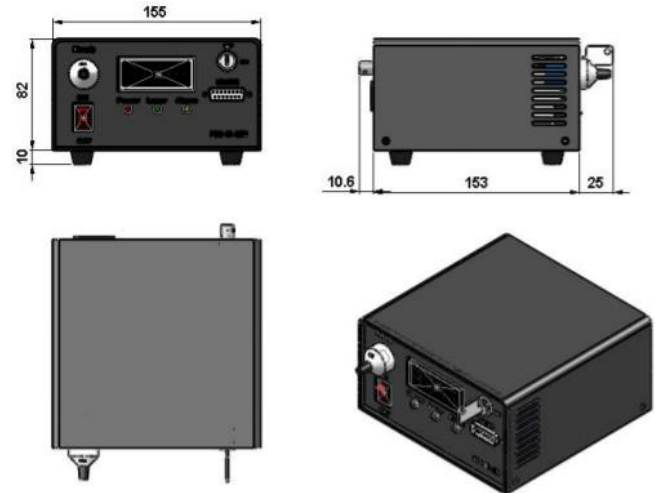


**Power Supply Options**

**Elite Power Supply (Y=E)**



**Laboratory Power Supply (Y=L)**



**A Version Laboratory Power Supply (Y=T)**



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