



## DLH1870 Series 1870nm Diode Laser System up to 800mW

### Overview

The DLH1870 series diode laser is ideal for applications that require a wavelength of 1870nm and output power levels up to 800mW. 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, and many other applications.



### Specifications

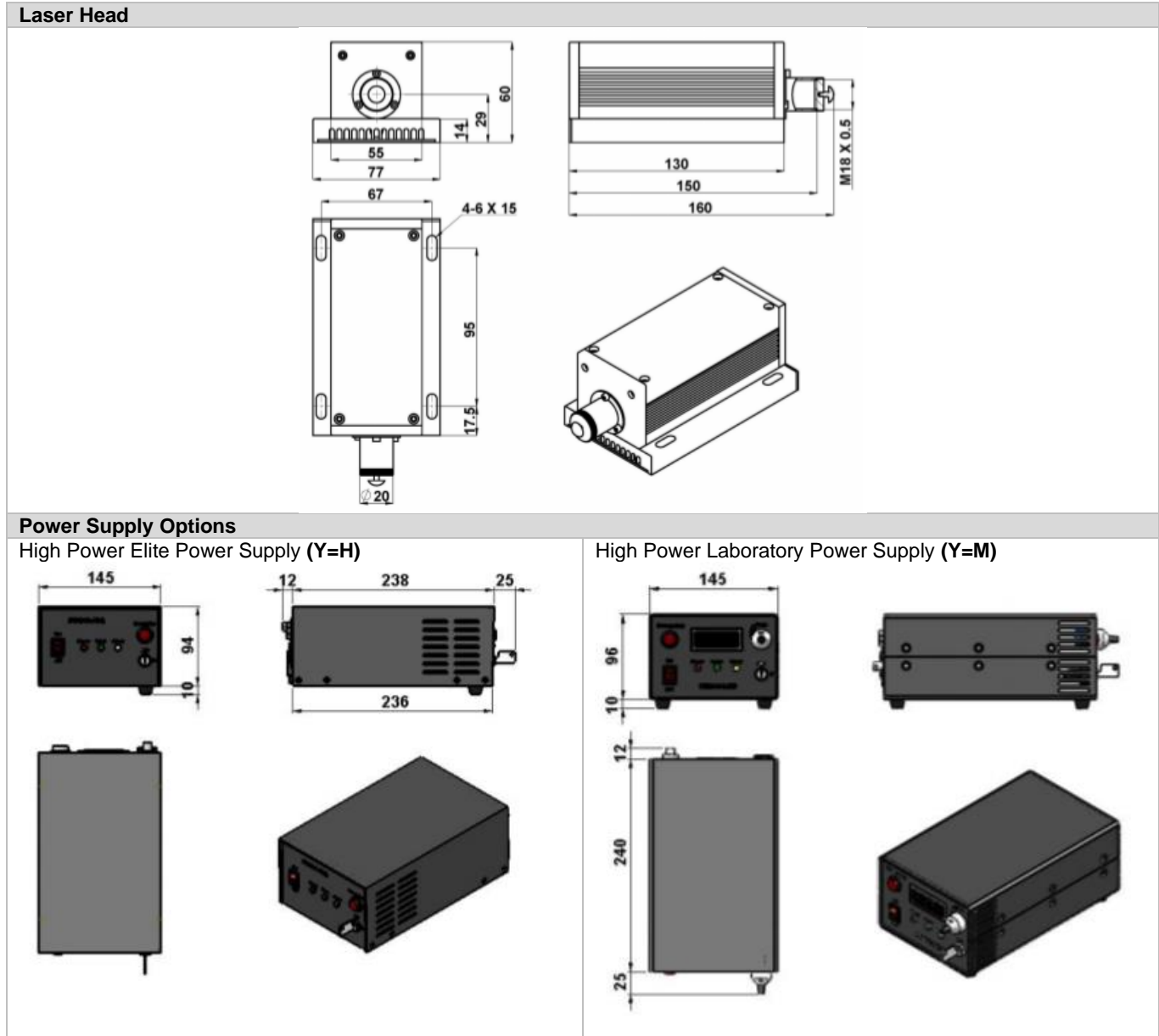
<b>Model Number</b>	<b>DLH1870-XYPQ</b>	
Wavelength (nm)	1870±20	
Output power (mW)	>100 ( <b>X=100</b> ), >200 ( <b>X=200</b> ), >300 ( <b>X=300</b> ), >500 ( <b>X=500</b> ), >800 ( <b>X=800</b> )	
Transverse mode	Multimode	
Operating mode	CW	
Power stability (rms, over 4 hours)	<1% ( <b>P=D</b> )	
Beam diameter at aperture (1/e <sup>2</sup> , mm)	~5x8	
Beam divergence, full angle (mrad)	<3.0	
Warm-up time (minutes)	<5	
Beam height from base plate (mm)	29	
Operating temperature (°C)	10-35	
Dimensions of laser head (mm)	160(L)x77(W) x60(H) mm <sup>3</sup>	
Weight of laser head (kg)	0.9 kg	
Power supply options		
High Power Elite Power Supply ( <b>Y=H</b> )	Input voltage	100-240VAC
	Dimensions	275(L) x145(W) x104(H) mm <sup>3</sup>
	Weight	2.1 kg
	Notes	Fixed output power
High Power Laboratory Power Supply ( <b>Y=M</b> )	Input voltage	100-240VAC
	Dimensions	277(L) x145(W) x106(H) mm <sup>3</sup>
	Weight	2.3 kg
	Notes	Adjustable output power
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> )
	Analog	1Hz-1kHz ( <b>Q=A1</b> ), 1kHz-10kHz ( <b>Q=A2</b> ), 10kHz-30kHz ( <b>Q=A3</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)**



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