



DLSD488 Series 488nm Diode Laser System up to 100mW

Overview

The DLSD488 series diode laser is ideal for applications that require a wavelength of 488nm and output power levels up to 100mW. The laser features a compact design, long operating lifetime, easy operation, and FDA-compliant system with driver. The laser is widely used in medical imaging, flow cytometry, DNA sequencing, and many other applications.



Specifications

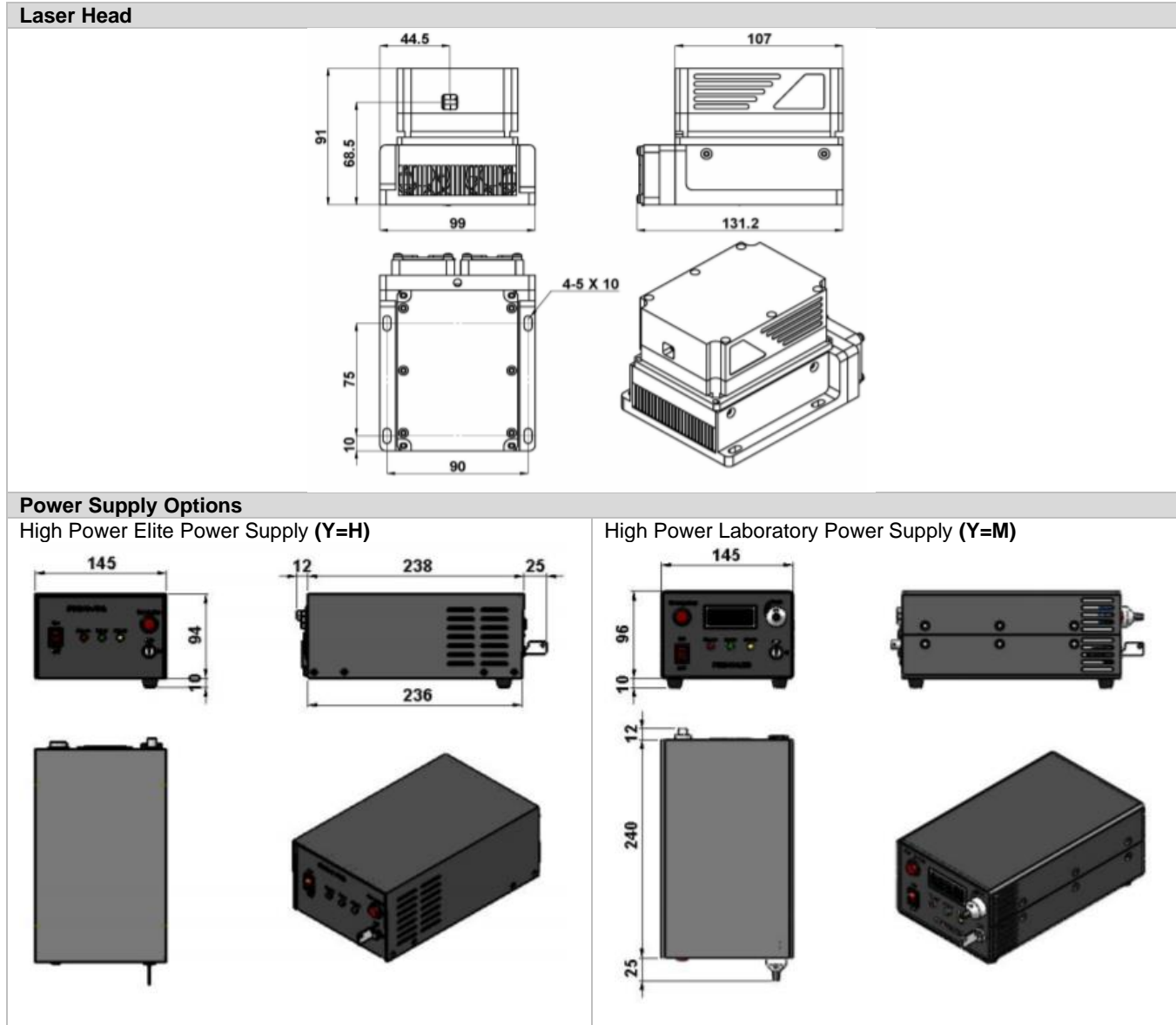
Model Number	DLSD488-XYPQZ	
Wavelength (nm)	488±5	
Output power (mW)	>100 (X=100)	
Transverse mode	Near TEM ₀₀	
Operating mode	CW	
Power stability (rms, over 4 hours)	<1% (P=D)	
Polarization direction	Horizontal (Z=H), Vertical (Z=V)	Horizontal + Vertical (Z=M)
Beam diameter at aperture (1/e ² , mm)	~2.0x3.5	~1.0x3.5
Beam divergence, full angle (mrad)	<1.0x0.6	
Warm-up time (minutes)	<5	
Beam height from base plate (mm)	68.5	
Operating temperature (°C)	10-35	
Dimensions of laser head (mm)	131.2(L)×99(W) ×91(H) mm ³	
Weight of laser head (kg)	1.6 kg	
Power supply options		
High Power Elite Power Supply (Y=H)	Input voltage	100-240VAC
	Dimensions	275(L) ×145(W) ×104(H) mm ³
	Weight	2.1 kg
	Notes	Fixed output power
High Power Laboratory Power Supply (Y=M)	Input voltage	100-240VAC
	Dimensions	277(L) ×145(W) ×106(H) mm ³
	Weight	2.3 kg
	Notes	Adjustable output power
Modulation option		None (Q=0)
	TTL	1Hz-1kHz (Q=T1), 1kHz-10kHz (Q=T2), 10kHz-30kHz (Q=T3)
	Analog	1Hz-1kHz (Q=A1), 1kHz-10kHz (Q=A2), 10kHz-30kHz (Q=A3)
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.



Outline Dimensions (unit: mm)



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