

DLF1850 Series 1850nm Diode Laser System up to 1000mW

Overview

The DLF1850 series diode laser is ideal for applications that require a wavelength of 1850nm and output power levels up to 1000mW. The laser features a compact design, long operating lifetime, easy operation, and FDA-compliant system with driver. The laser is widely used in measurement, communication, spectrum analysis, and many other applications.



Specifications

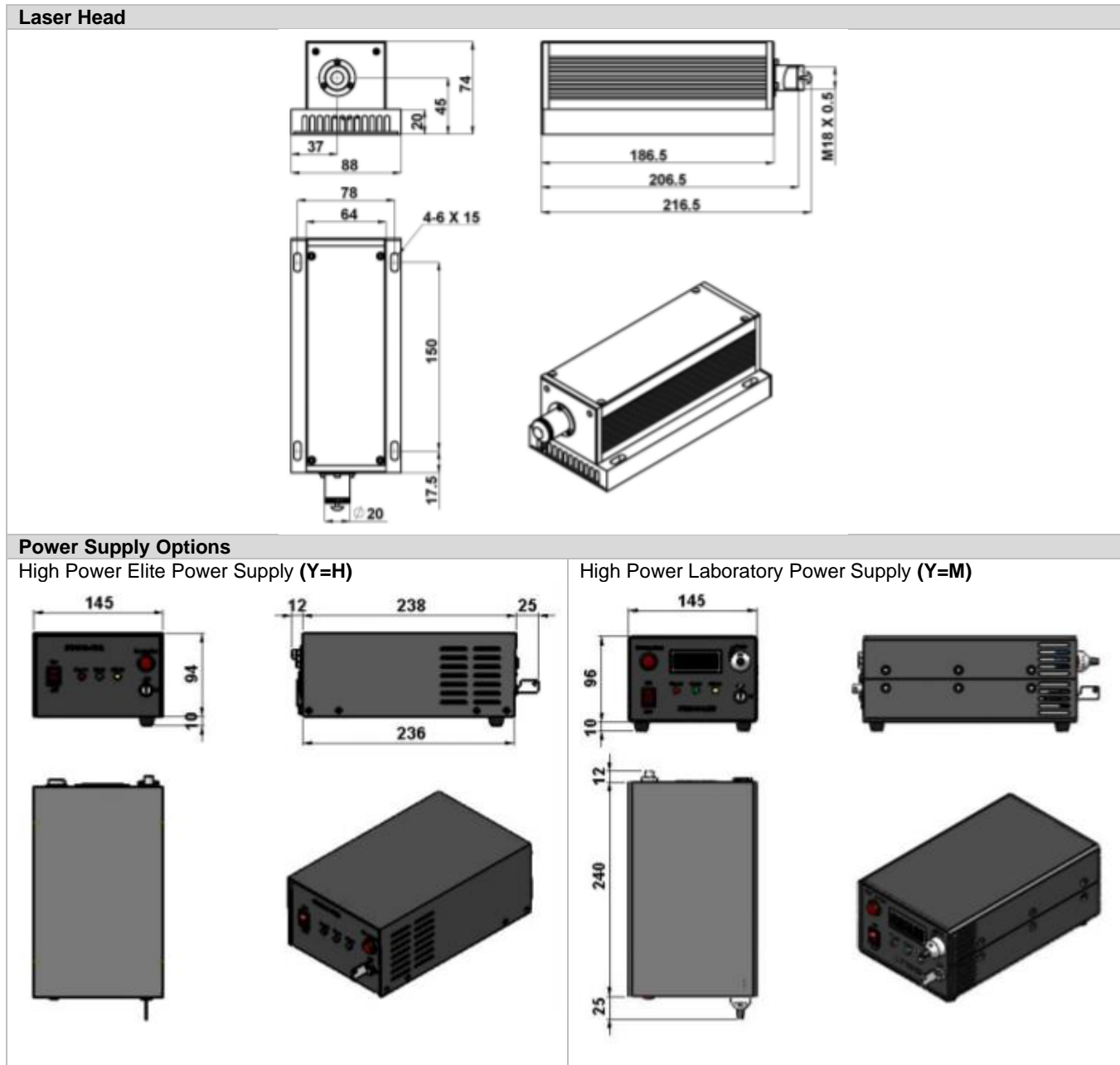
Model Number	DLF1850-XYPQ		
Wavelength (nm)	1850±30		
Output power (mW)	>100 (X=100), >300 (X=300), >500 (X=500), >800 (X=800), >1000 (X=1W)		
Transverse mode	Multimode		
Operating mode	CW		
Power stability (rms, over 4 hours)	<1% (P=D)		
Beam diameter at aperture (1/e ² , mm)	~5x8		
Beam divergence, full angle (mrad)	<3.0		
Warm-up time (minutes)	<5		
Beam height from base plate (mm)	45		
Operating temperature (°C)	10-35		
Dimensions of laser head (mm)	216.5(L)x88(W) x74(H) mm ³		
Weight of laser head (kg)	1.4 kg		
Power supply options			
High Power Elite Power Supply (Y=H)	Input voltage	85-264VAC	
	Dimensions	275(L) x145(W) x104(H) mm ³	
	Weight	2.1 kg	
	Notes	Fixed output power	
High Power Laboratory Power Supply (Y=M)	Input voltage	85-264VAC	
	Dimensions	277(L) x145(W) x106(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 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.