



DPLS532 Series Environmentally Sealed 532nm Low Noise DPSS Laser System up to 300mW

Overview

The DPLS532 series diode pumped solid state (DPSS) laser is ideal for applications that require a wavelength of 532nm and output power levels up to 300mW. The laser features a compact design, low noise, good sealing, long lifetime, easy operation working under the pressure of 0.02kPa, and FDA-compliant system with driver. The laser is widely used in DNA sequencing, flow cytometry, cell sorting, optical instrument, spectrum analysis, interference, measurement, holography, laser printing, chip inspection, physics experiment, and many other applications.



Specifications

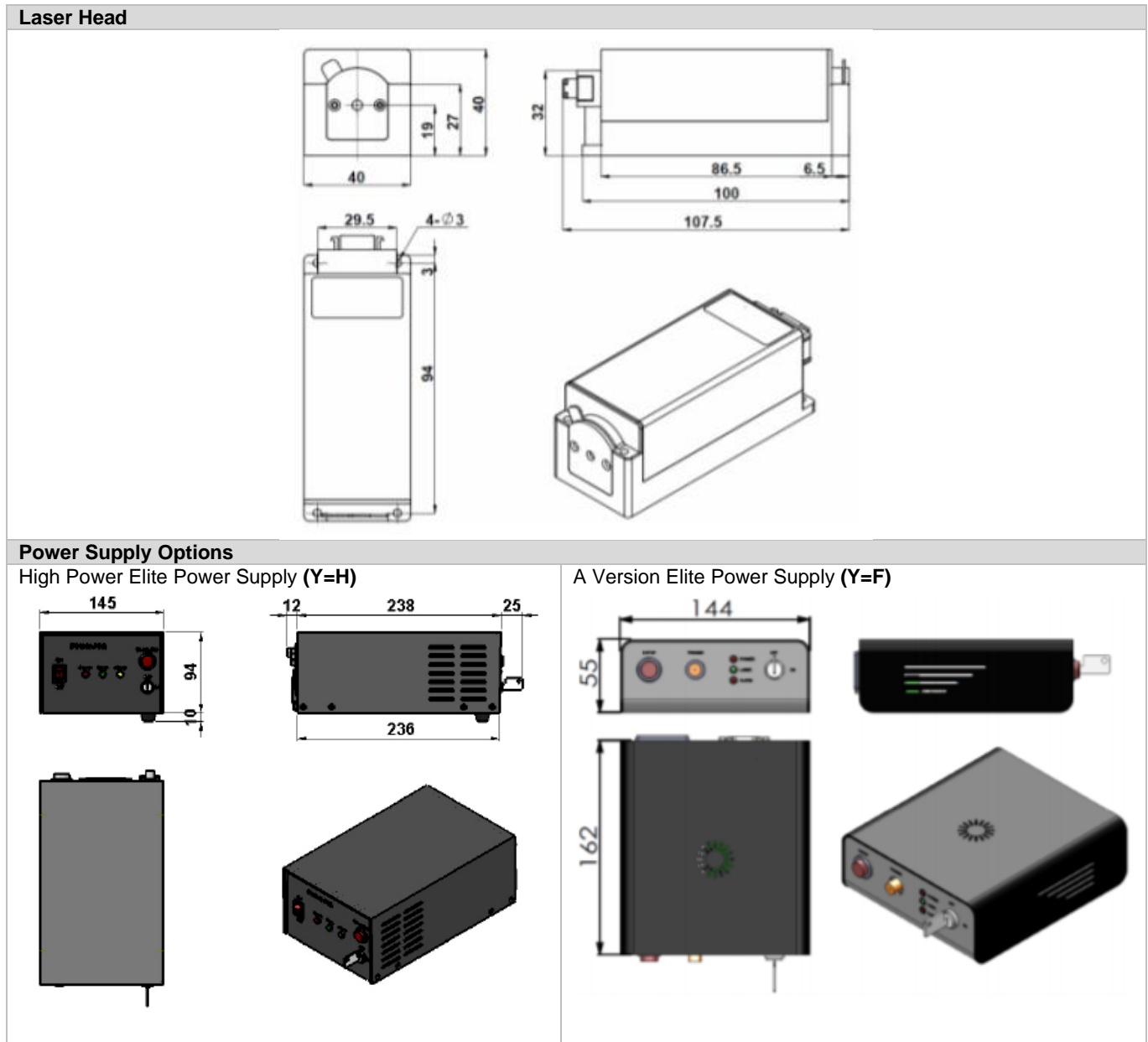
Model Number	DPLS532-XYZRAQ		
Wavelength (nm)	532±1		
Output power (mW)	>100 (X=100), >200 (X=200)	>300 (X=300)	
Transverse mode	TEM ₀₀		
Operating mode	CW		
Power stability (rms, over 4 hours)	<3% (Z=E), <2% (Z=2), <1% (Z=D)	<3% (Z=E), <2% (Z=2)	
Noise of amplitude (rms, 20Hz-20MHz)	<1% (A=1), <0.5% (Z=L)		
M ² factor	<1.2		
Beam diameter at aperture (1/e ² , mm)	0.7±0.05		
Beam divergence, full angle (mrad)	<1.5		
Polarization ratio	>100:1 Horizontal ±5 degree		
Warm-up time (minutes)	<5		
Pointing stability after warm-up (mrad)	<0.05		
Pointing stability over temp (urad/°C)	<8		
Beam height from base plate (mm)	19		
Power consumption (W)	<40		
Shock tolerance (6ms)	7g laterally, 15g vertically		
IP rating	IP67 (R=W)	IP65 (R=D)	
Operating temperature (°C)	0-60		10-35
Max heat dissipation of head	10W at 50°C		4W at 25°C
Dimensions of laser head (mm)	100(L)×40(W) ×40(H) mm ³		
Weight of laser head (kg)	0.36 kg		
Power supply options			
High Power Elite Power Supply (Y=H)	Input voltage	90-264VAC	
	Dimensions	236 (L) ×145(W) ×104(H) mm ³	
	Weight	2.3 kg	
	Notes	Fixed output power, only for IP67 rating	
A Version Elite Power Supply (Y=F)	Input voltage	90-264VAC	
	Dimensions	162(L) ×144(W) ×55(H) mm ³	
	Weight	0.5 kg	
	Notes	Fixed output power, only for IP65 rating	
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.