

DPF589 Series 589nm CW DPSS Laser System up to 300mW

Overview

The DPF589 series diode pumped solid state (DPSS) laser is ideal for applications that require a wavelength of 589nm and output power levels up to 300mW. The laser features a compact design, long lifetime, easy operation, and FDA-compliant system with driver. The laser is widely used in collimation, laser medical treatment, scientific experiment, optical instrument, and many other applications.

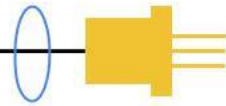


Specifications

Model Number		DPF589-XYZQ	
Wavelength (nm)		589±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)		<5% (Z=A), <3% (Z=E), <2% (Z=2), <1% (Z=D)	<5% (Z=A), <3% (Z=E)
M ² factor		<2.0	
Beam diameter at aperture (1/e ² , mm)		~3.0	
Beam divergence, full angle (mrad)		<2.0	
Polarization ratio		>100:1	
Warm-up time (minutes)		<10	
Pointing stability after warm-up (mrad)		<0.05	
Beam height from base plate (mm)		45	
Operating temperature (°C)		10-35	
Dimensions of laser head (mm)		211(L)×88(W) ×74(H) mm ³	
Weight of laser head (kg)		1.6 kg	
Power supply options			
High Power Elite Power Supply (Y=H)	Input voltage	90-264VAC	
	Dimensions	275(L) ×145(W) ×104(H) mm ³	
	Weight	2.3 kg	
	Notes	Fixed output power	
High Power Laboratory Power Supply (Y=M)	Input voltage	90-264VAC	
	Dimensions	277(L) ×145(W) ×106(H) mm ³	
	Weight	2.6 kg	
	Notes	Adjustable output power	
High Power S Version Laboratory Power Supply (Y=S)	Input voltage	90-264VAC	
	Dimensions	188(L) ×145(W) ×83(H) mm ³	
	Weight	2 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	

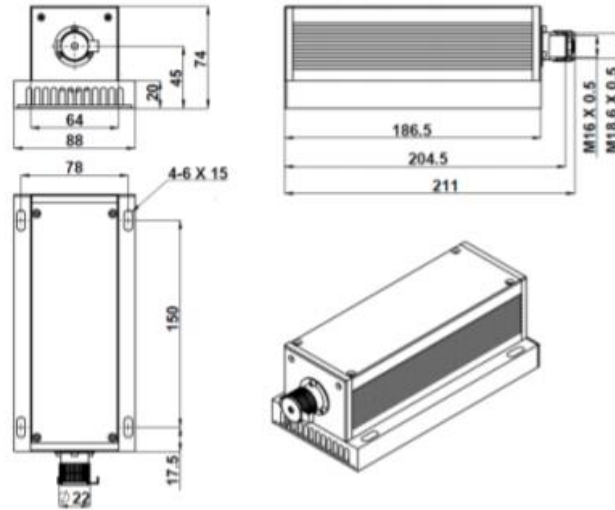
Remarks:

- 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.



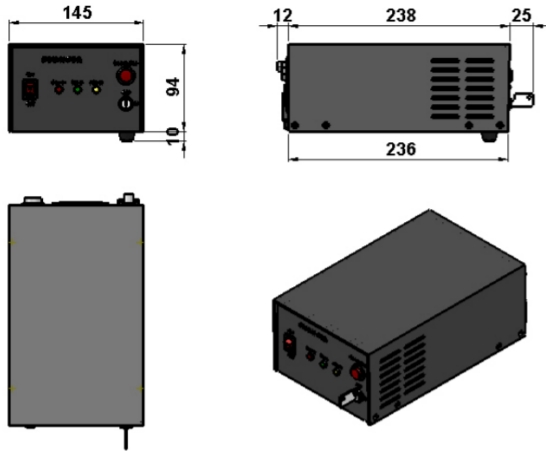
Outline Dimensions (unit: mm)

Laser Head



Power Supply Options

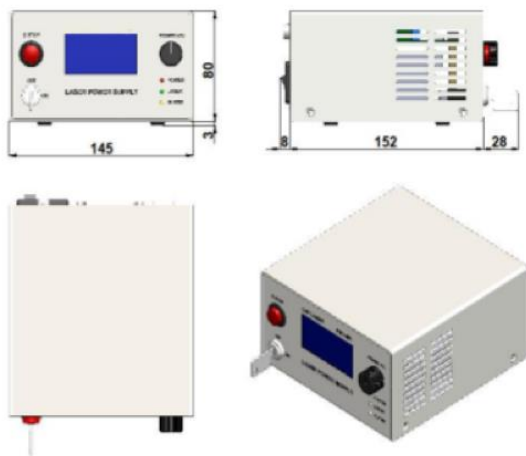
High Power Elite Power Supply (Y=H)



High Power Laboratory Power Supply (Y=M)



High Power S Version Laboratory Power Supply (Y=S)



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