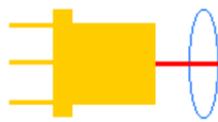


**Model No. DPF-457-XFYPZQ**  
**457nm DPSS LASER UP TO >1000mW**

The DPF-series 457nm LD pumped all-solid-state laser is constructed with features of high stability, low noise option, FDA compliance, ultra-compactness, long lifetime, low cost and easy operating. It is widely used in fluorescence sensors, Raman spectrum, laser printing, holography, laser display, submarine communication, biomedicine, laser lighting show, physics experiment, interference, chip inspection, and many other applications.

**SPECIFICATIONS**

<b>Model No.</b>	<b>DPF-457-XFYPZQ</b>	
<b>Wavelength (nm)</b>	457±1	
<b>Output power (mW)</b>	>50 ( <b>X=50</b> ), >100 ( <b>X=100</b> ), >300 ( <b>X=300</b> )	>500 ( <b>X=500</b> ), >800 ( <b>X=800</b> ), >1000 ( <b>X=1W</b> )
<b>Transverse mode</b>	Near TEM <sub>00</sub>	Near TEM <sub>01</sub>
<b>Operating mode</b>	CW	
<b>Power stability (rms, over 4 hours)</b>	<10% ( <b>P=B</b> ), <5% ( <b>P=A</b> ), <3% ( <b>P=E</b> )	<10% ( <b>P=B</b> ), <5% ( <b>P=A</b> )
<b>Noise of amplitude (rms, 20Hz~20MHz)</b>	<3% for Low Noise ( <b>Z=1</b> ), >3% ( <b>Z=2</b> )	
<b>Dimensions of beam at aperture (1/e<sup>2</sup>, mm)</b>	~3.0	
<b>Beam divergence, full angle (mrad)</b>	<1.5	
<b>M<sup>2</sup> factor</b>	<2.0	
<b>Polarization ratio</b>	>100:1	
<b>Warm-up time (minutes)</b>	<10	
<b>Beam height from base plate (mm)</b>	45	
<b>Pointing stability after warm-up (mrad)</b>	<0.05	
<b>Operating temperature (°C)</b>	10~35	
<b>Laser head</b>	211(L)×88(W) ×74(H) mm <sup>3</sup> ; 1.6kg	
<b>Power supply (90-240VAC)</b>	<p><b>High Power Elite Power Supply (Y=H):</b> 236 (L) ×145(W) ×104(H) mm<sup>3</sup>, 2.3kg; complete FDA compliant features, such as the turnkey switch and interlock, and easy to operate; CW mode with optional TTL modulation up to 10kHz</p> <p>**Note: If with Low Noise <b>Z=1</b>, then <b>Y=H</b> only.</p> <p><b>High Power Laboratory Power Supply (Y=M):</b> 277(L) ×145(W) ×106 (H) mm<sup>3</sup>, 2.6kg; complete FDA compliant features, such as the turnkey switch and interlock, and more functions; CW mode with the adjustable output power knob, the operating current LED display, and optional TTL/Analog modulations up to 10kHz</p>	
<b>Optional Modulation</b>	<p>No (<b>Q=0</b>)</p> <p><b>TTL:</b> 1Hz -1kHz (<b>Q=1</b>), 1kHz -10kHz (<b>Q=2</b>)</p> <p><b>Analog:</b> 1Hz -1kHz (<b>Q=3</b>), 1kHz -10kHz (<b>Q=4</b>)</p> <p>**Note: Modulation option only available for <b>Z=2</b>.</p>	
<b>Expected lifetime (hours)</b>	10,000	
<b>Warranty</b>	10 months	



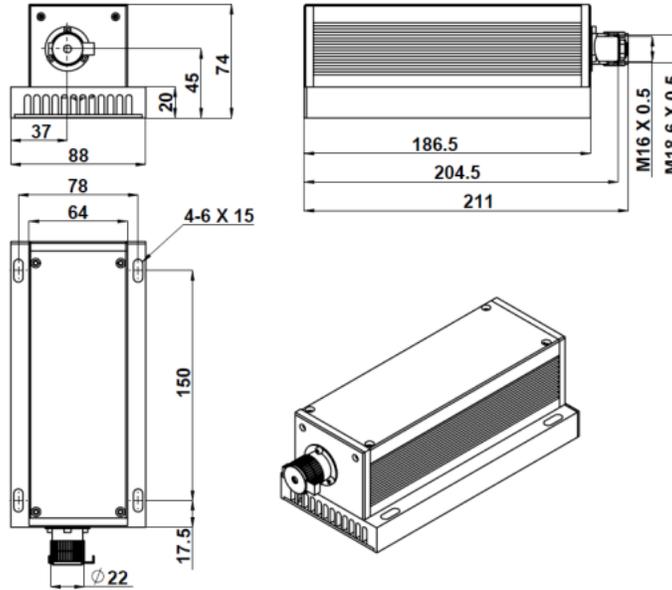
Remarks

The stability of output power is promised at the maximum output power only. The stability of output power may change when you adjust the output power.

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

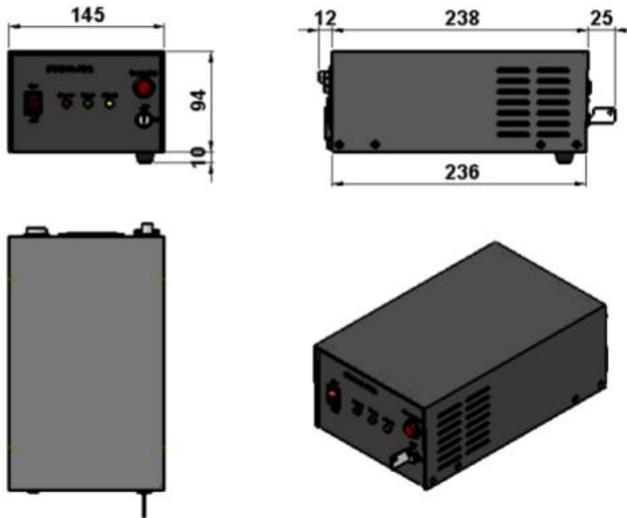
Mechanical Outline (unit: mm)

Laser Head



Power Supply

High Power Elite Power Supply (Y=H):



High Power Laboratory Power Supply (Y=M):



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

