



## Blue CW DPSS Laser System DPSF Series

Data Sheet



### Overview

The DPSF series is a line of blue diode pumped solid state (DPSS) lasers that is available at 430nm, 488nm, and 491nm wavelengths and can provide output power levels up to 400 mW. The DPSF laser series features an ultra-compact design, long lifetime, easy operation, and FDA-compliant system with driver. The laser series is used in laser display, medical treatment, scientific research, and many other applications.

### Features

- Blue at 430nm, 488nm, and 491nm
- CW operating mode
- Optical output power 200mW to 400mW
- Ultra-compact design
- FDA compliant

### Applications

- Laser display
- Medical treatment
- Scientific research

## 430-491 nm Specifications

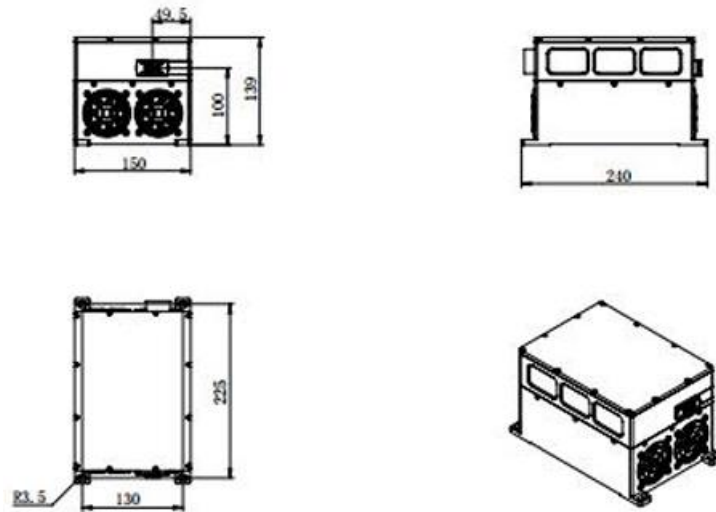
Parameter	DPSF430	DPSF488	DPSF491
Wavelength	430±2 nm	488±1 nm	491±1 nm
Output power	>10 mW, >30 mW, >50 mW, >80 mW, >100 mW	>10 mW, >30 mW, >50 mW, >100 mW, >200 mW, >300 mW	>10 mW, >30 mW, >50 mW, >100 mW, >200 mW, >300 mW, >400 mW
Operating mode	CW		
Transverse mode	Near TEM <sub>00</sub>	Near TEM <sub>00</sub>	Near TEM <sub>00</sub>
Power stability (rms, over 4 hours)	<5%, <3%	<5%, <3%	<10%, 5%, <3%
Beam diameter at aperture (1/e <sup>2</sup> )	~5 mm	~4 mm	~4 mm
Beam divergence, full angle	<2 mrad	<3 mrad	<3 mrad
Polarization ratio	>100:1	>100:1	>100:1
Warm-up time	<10 min	<10 min	<10 min
Operating temperature	15-30°C		
Expected lifetime	10,000 hours		
Warranty period	10 months		

## 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.

DPSF Series Laser Head Dimensions

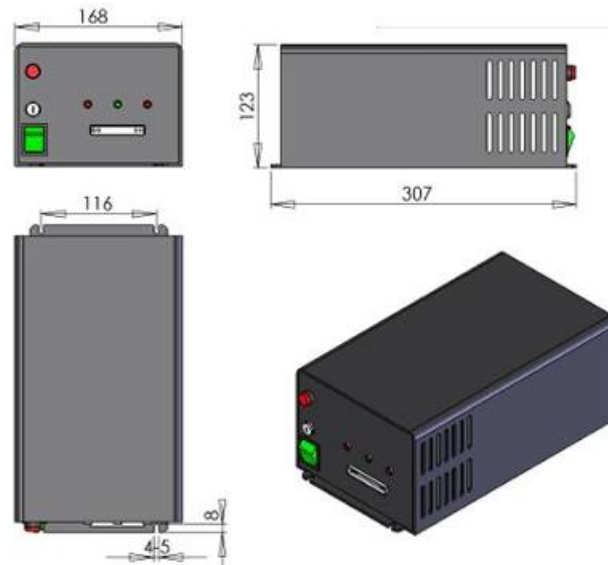
Unit: mm



Parameter	DPSF Series
Dimensions	240(L)×150(W) ×139(H) mm <sup>3</sup>
Weight	7.5 kg
Beam height from base plate	100 mm

DPSF Series Power Supply Dimensions

Unit: mm



Parameter	High Power W Version Elite Power Supply
Dimensions	307(L) ×168(W) ×123(H) mm <sup>3</sup>
Weight	4.5 kg
Input voltage	90-264VAC

**Ordering Information**

For more information, please contact Lasermate directly at [sales@lasermate.com](mailto:sales@lasermate.com).

Part Number Configuration DPSF[1][2][3][4]				
DPSF = Laser Model Series	[1] = Wavelength	[2] = Output Power	[3] = Power Supply	[4] = Power Stability
	430= 430nm 488= 488nm 491= 491nm	10= >10mW 30= >30mW 50= >50mW 80= >80mW 100= >100mW 200= >200mW 300= >300mW 400= >400mW	W=High Power W Version Elite Power Supply	B= <10% A= <5% E= <3%

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