



MLPS355 Series 355nm Mode-Locked Picosecond Pulsed Laser up to 150mW

Overview

The MLPS355 series mode-locked picosecond pulsed laser is ideal for applications that require a wavelength of 355nm and output power levels up to 150mW. The laser is constructed with features of short pulse duration, high repetition rate and good beam quality. The laser is commonly used in laser medical treatment, industrial processing, physics experiment, and many other applications.



Specifications

Model Number	MLPS355-XYZ-C	
Wavelength (nm)	355±1	
Operating mode	Mode-locked	
Output power at Mode-locked mode (mW)	>30 (X=30), >50 (X=50), >80 (X=80), >100 (X=100), >150 (X=150)	
Transverse mode	TEM ₀₀	
Power stability (rms, over 4 hours)	<5% (Z=A), <3% (Z=E)	
Pulse duration (ps)	10~20	
Repetition rate (MHz)	48±1	
Beam diameter at aperture (mm)	~3	
Beam divergence, full angle (mrad)	<4	
Warm-up time (minutes)	<10	
Beam height from base plate (mm)	60	
Operating temperature (°C)	10~30	
Dimensions of laser head (mm)	545(L)×244(W) ×90(H) mm ³	
Weight of laser head (kg)	19 kg	
Power supply		
Z Version Laboratory Power Supply (Y=Z)	Input voltage	90-264VAC
	Dimensions	300(L) ×300(W) ×123(H) mm ³
	Weight	6.2 kg
Water chiller	Dimensions	369(L)×350(W) ×347(H) mm ³
	Weight	22 kg
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 pulsed laser is based on the laser pulsed at the specified repetition rate. If the laser is run at a different repetition rate, the output characteristics may change.



Outline Dimensions (unit: mm)

Laser Head	Power Supply
<p>Technical drawings of the Laser Head. The top view shows a rectangular unit with a width of 244 mm and a height of 90 mm. The distance between the centers of the three laser tubes is 44 mm, 52 mm, and 52 mm. The side view shows a length of 545 mm. A perspective view shows the unit from an angled perspective.</p>	<p>Technical drawings of the Power Supply. The top view shows a rectangular unit with a width of 300 mm and a height of 123 mm. The side view shows a length of 309 mm and a width of 228 mm. A perspective view shows the unit from an angled perspective.</p>
Water Chiller	<p>A 3D perspective view of the Water Chiller unit, showing a rectangular box with a control panel on top and a large fan grille on the front.</p>

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