

AWM Series Diode Laser System



The AWM series diode laser system utilizes a high-performance, high-power single-wavelength diode laser source, with optional wavelengths including 650nm, 808nm, 910nm, 980nm, 1064nm and 1470nm. With a maximum output power of up to 10W, it is suitable for applications such as tissue vaporization, laser cutting and more.

The AWM series integrates a drive circuit, control circuit and heat dissipation system, the circuit section features standard input/output interfaces, reducing failures caused by compatibility issues between optical and electrical components. Additionally, the built-in TEC for heat dissipation enhances system stability.

Key Features

- ◆ Superior power stability
- ◆ Excellent beam quality
- ◆ Efficient heat dissipation
- ◆ High reliability
- ◆ Different-wavelength combinations available

Applications

- Laser therapy
- Laser surgery

Technical Specifications (25°C)

Center Wavelength (nm)		5-wavelength				
		650	808	910	980	1064
Optical	CW Output Power / P_{op} (W)	0.5	8	10	10	10
	Wavelength Tolerance (nm)	± 10				
	Spectral Width / $\Delta\lambda$ (nm)	<6				
Aiming Beam	Output Power / P_a (mW)	2				
	Wavelength / λ_a (nm)	650				
Fiber	Output Mode	Fiber detachable				
	Fiber Core Diameter / D_{core} (μm)	200, 400				
	Fiber Cladding Diameter / D_{clad} (μm)	220, 440				
	Fiber Length / L (cm)	100 \pm 10 (Customizable)				
	Numerical Aperture / NA	0.22				
	Connector	SMA905				
System	Working Mode	CW/Pulse				
	Repetition Rate (kHz)	0-10				
	Pulse width (ms)	0.05-300				
	Heat Dissipation	Air cooling				
	Operating Temperature ($^{\circ}C$)	10-30				
	System Power (W)	≤ 300				

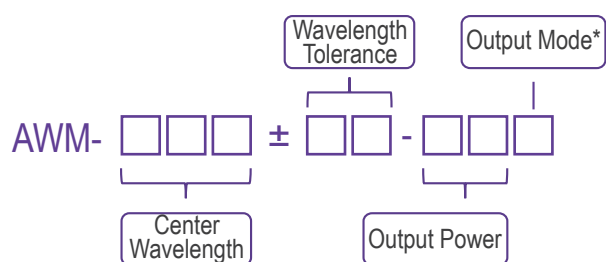
1. Optional wavelength combinations: 6XX/7XX/8XX/9XX/1064/1470nm.

2. All the data in the above table are the typical values obtained from the tests at room temperature of 25°C, and the final data is subject to the final test report.

Order Information

Wavelength (nm)	Output Power(W)	Part Number
650/808/910/980/1064	0.5/8/10/10/10	AWM-650/808/910/980/1064±10-0.5/8/10/10/10WD

Part Numbering Schema



*Output Mode: D - Fiber Detachable

Mechanical Drawings (in mm)

