

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 450nm, 660nm, 783nm, 808nm, 915nm, 940nm, 980nm, and 1064nm. With a maximum output power of up to 30W, 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)

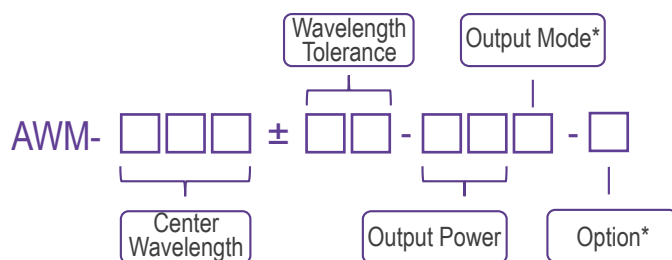
Center Wavelength (nm)		808			9xx (915/940/980)			1064			660(638)/808/ 980/1064				450/660(638)/ 980/1064			
Optical	CW Output Power / P _{op} (W)	8.5	15	30	10	15	30	10	12	30	0.5	8.5	10	10	4	0.5	10	10
	Wavelength Tolerance (nm)	±10																
	Spectral Width / Δλ (nm)	<6																
Aiming Beam	Output Power / P _a (mW)	2																
	Wavelength / λ _a (nm)	650±10																
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±10 (Customizable)																
	Numerical Aperture / NA	0.22																
Connector	SMA905																	
System	Working Mode	CW/Pulse																
	Repetition Rate	0-10kHz																
	Pulse width	0.05-300ms																
	Heat Dissipation	Air cooling																
	Operating Temperature	10-30°C																
System Power	≤300W																	

1. 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
808	8.5/15/30	AWM-808±10-8.5/15/30WD-P
9xx(915/940/980)	10/15/30	AWM-9xx±10-10/15/30WD-P
1064	10/12/30	AWM-1064±10-10/12/30WD-P
660(638)/808/980/1064	0.5/8.5/10/10	AWM-660(638)/808/980/1064±10-0.5/8.5/10/10WD
450/660(638)/980/1064	4/0.5/10/10	AWM-660(638)/808/980/1064±10-4/0.5/10/10WD

Part Numbering Schema



*Output Mode: D - Fiber Detachable

*Option: P - Pilot Light

Mechanical Drawings (in mm)

