

High Brightness Fiber-coupled Blue Diode Laser Module

FACH-450-18W-FC105

Features:

CW Output Power 18W
Fiber Core Diameter 105 μ m / NA 0.22
High Power Conversion Efficiency
Compact Design
Temperature Sensor
Water Cooling

Applications:

Material Processing
Micro-Soldering
Laser Display / Projector
3D Printing
Scientific Applications

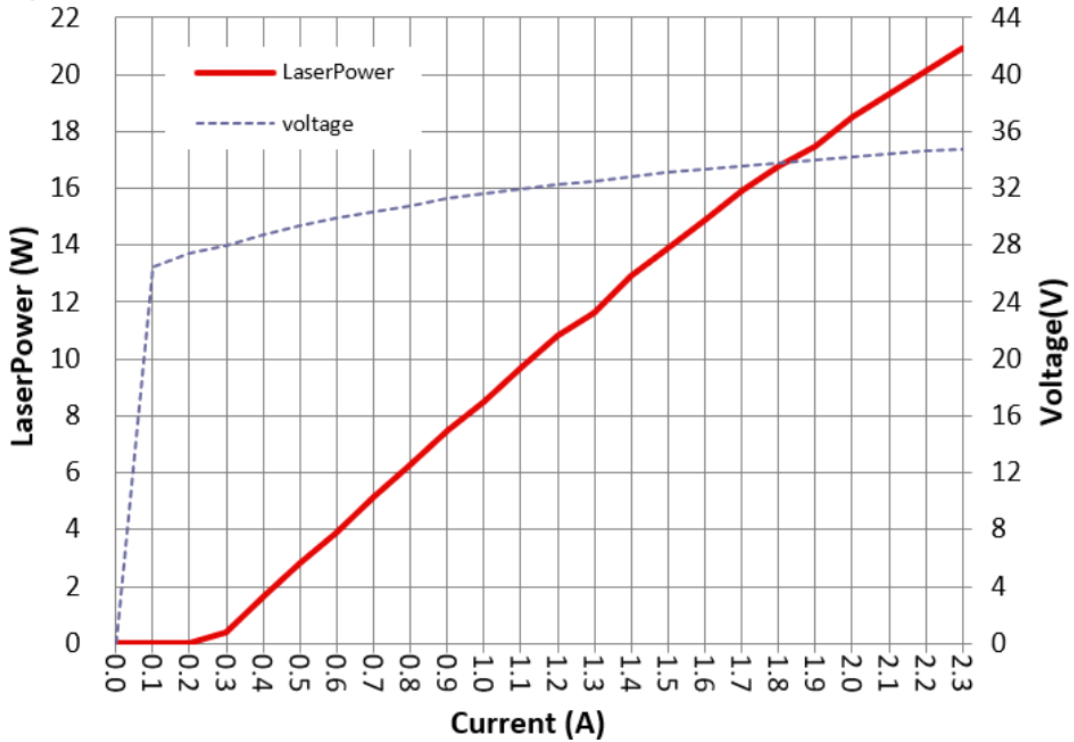
Optical Specifications	
CW Output Power (W)	18
Center Wavelength λ (nm)	450
Center Wavelength Tolerance $\Delta\lambda$ (nm)	± 10
Spectral Width (FWHM) (nm)	<15
Fiber Specifications	
Fiber Core (μm)	105
Numerical Aperture (NA)	0.22
Connector	SMA-905
Electrical Specifications (typical)	
Threshold Current (A)	~ 0.3
Operation Current @ 18W (A)	2.0 - 3.2
Operation Voltage @ 18W (V)	34 - 40
Conversion Efficiency (%)	>20
Thermal Specifications	
Water Temperature ($^{\circ}\text{C}$)	20 - 25
Environmental Temperature ($^{\circ}\text{C}$)	15 - 30
Storage Temperature ($^{\circ}\text{C}$)	5 - 60

Mechanical Specifications	
Laser Head Dimensions (mm) (Fiber and connector not included)	215 x 82 x 31.5
Weight (g)	950

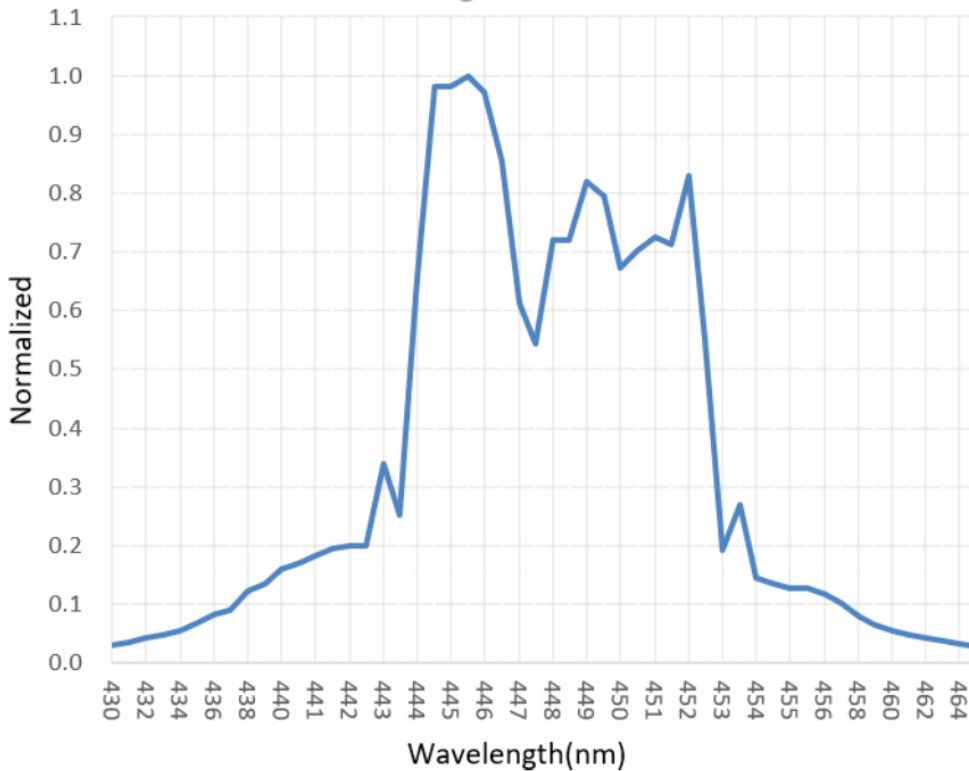


Typical Performance

Output power



Emission Spectrum



Package Dimensions (mm)

