HJ OPTRONICS

980nm 2000W Fiber Coupled Semiconductor Laser System

Model #: SLS-980-2000W

Description: 2000W high-power fiber-coupled semiconductor laser system at 980 nm

Features

- Output power 2000 W
- 400μm/0.22 NA multimode optical fiber
- Central wavelength 980 ± 10 nm
- User friendly

Applications

- Industrial processing

Specifications (at 20°C)

Optical Specification	
Central Wavelength (nm)	980 ± 10
Output Power (W)	2000
Optical Power Adjustable Range (%)	10 ~ 100
Output Power Stability (%)	< 3 (within 24 hours)
Aiming Beam	
Central Wavelength (nm)	650
Output Power (mW)	2 – 5
Electrical Specification	
Input Voltage (VAC)	220
Electric Power Consumption (kW)	5
Optical Fiber Specification	
Fiber Core Diameter (μm)	400
Armor Outer Diameter (mm)	13
Numerical Aperture (N.A.)	0.22
Fiber Length (m)	5 (customizable)
Fiber Connector	QBH
Cooling Specification	
Cooling Mode	Water cooling
Cooling Temperature (°C)	20
Cooling Water Flow (L/min.)	10-12
Cooling Water Input Pressure (MPa)	0.3
Exterior Diameter of Water Pipe (mm)	12
QBH Cooling Water Flow (L/min.)	2
Working Mode	
Control Mode	RS-485 Serial Mode
	AD Control Mode 0-10 V Analog Control
Protection	Over-voltage, over current, over temperature, PD protection
Modulation Mode	Continuous
Environmental Specification	
Operating Temperature (°C)	5~40

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Operating Relative Humidity (%)	< 75
Storage Temperature (°C)	-20 ~ 80
Storage Relative Humidity (%)	< 90

Note: When the laser is working, it is prohibited for the beam to be perpendicular to the working surface. It is recommended to tilt the working surface.

Dimension: