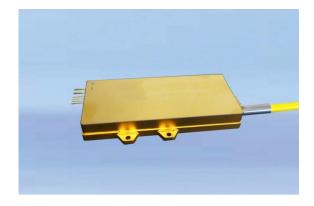




# 808nm Fiber-coupled Diode Laser

By adopting specialized fiber-coupling techniques, the manufactured diode laser modules have a high efficiency, stability and superior beam quality. The modules are achieved by transforming the asymmetric radiation from the laser diode chip into an output fiber with small core diameter by using special micro optics. Inpection and burn-in procedures guarantee reliability, stability and long lifetime of each modules.



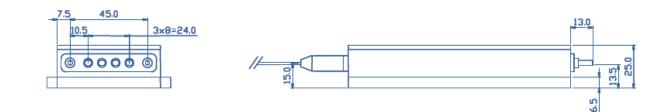
#### Features

- 120W and 140W CW output power
- Optional thermistor and photodiode

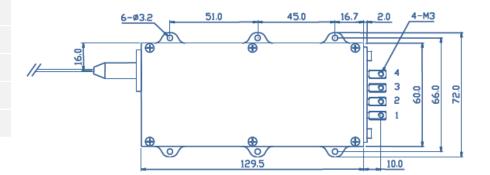
## **Applications**

- Solid state laser pumping
- Medical treatment

#### Package dimension (mm)



Pin	Function		
1	Laser diode -		
2	Laser diode +		
3	Thermistor		
4	Thermistor		



PhotonTec Berlin GmbH Max-Planck-Str. 3 D-12489 Berlin Germany

Tel.: +49-30-83409380 Fax: +49-30-83409381 info@photontec-berlin.com www.photontec-berlin.com





LASER RADIATION AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION CLASS 4 LASER PRODUCT

# PHOTONTEC BERLIN

## **Module Specifications**

Model		M808±3-100-F200/22-C2	M808±3-120-F400/22-C2		
Optical Parameters	Unit				
Output Power	W	100	120		
Central Wavelength	nm	808			
Wavelength Tolerance	nm	± 3			
Spectral Width (90% power)	nm	< 3.0			
Wavelength Temp. Coefficient	nm/°C	0.3			
Fiber Parameters					
Fiber Core Diameter	μm	200	400		
Fiber Cladding Diameter	μm	220	440		
Numerical Aperture		0.22	0.22		
Bare Fiber Length	m	1 - 2			
Fiber Connector		optional SMA905			
Electric Parameters					
Threshold Current (typical)	А	1.5	1.8		
Operating Current (typical)	А	9.0	11.0		
Operating Voltage (typical)	V	26.7	26.8		
Slope Efficiency (typical)	W/A	13.4	13.0		
Power Conversion Efficiency (typical)	%	42	40		
Accessories					
Monitor Photodiode		optional			
Thermistor		optional NTC10k			
Other Parameters					
Operating Temperature	°C	20 - 35			
Operating Humidity	0⁄0	< 75			
Storage Temperature	°C	-20 - +80			
Soldering Temperature	°C	250 (10s)			

Notes: 1. Module specifications and dimension are subject to change without notice.

2. ESD precautions must be taken.

3. The minimum fiber bend diameter should be 300 times greater than the fiber core diameter.

4. Reduced lifetime if improperly used or used above operating conditions.

5. A non-condensing environment is required for storage and operation below the ambient dew point.

**Compliance with Regulatory Requirements**: This industrial laser is an OEM version of a laser diode. As such, it is intended only for integration into other equipment. This laser does not comply with IEC and CDRH requirements. The customer is responsible for IEC and CDRH certifications of the system that incorporates this industrial laser.

PhotonTec Berlin GmbH Max-Planck-Str. 3 D-12489 Berlin Germany Tel.: +49-30-83409380 Fax: +49-30-83409381 info@photontec-berlin.com www.photontec-berlin.com





LASER RADIATION AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION CLASS 4 LASER PRODUCT