

LT-LM-PUMP-1064-10~20W-W-C

Laser Module/Pump Laser/1064nm/10~20W



■ Features

- 1064nm Infrared Laser
- Internal Drive & TEC
- Collimated Beam

■ Applications

- Bio & Medical
- Measurement
- Light Source of Optical Equipments

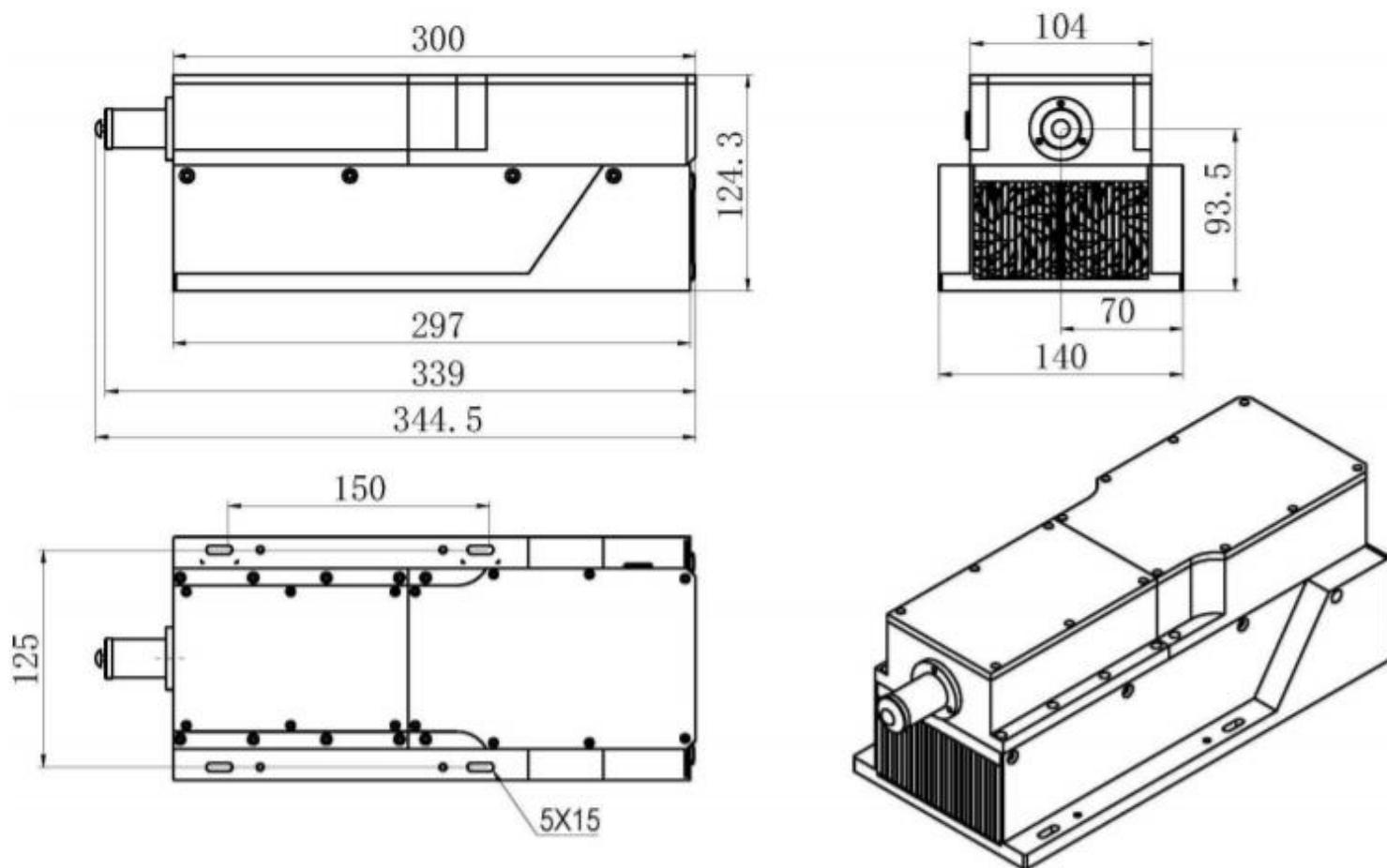
■ Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Operating Temperature	T _{opr}	10 ~ 35	°C
Storage Temperature	T _{stg}	10 ~ 50	°C
MTTF	—	10000	Hrs
Warm Up Time	—	< 5	Min

■ Optical and Electrical Characteristics (Tc=25℃)

Parameter	Symbol	Value	Unit
Center Wavelength	λ_c	1064	nm
Wavelength Tolerance	λ_c	± 1	nm
Optical Output Power	Po	10 , 12 , 15 , 20 Selectable	W
Spatial Pattern	—	Near TEM00	—
M ² Factor	—	2.0 ~ 2.5	—
Beam Divergence, Full Angle	—	1.4	mrad
Beam Diameter(1/e ²)	—	2.2	mm
Pointing Stability	—	< 0.05	mrad
Polarization Ratio	—	> 100 : 1	—
Power Stability(Rms, Over 4 Hours)	—	< $\pm 2\%$	—
Beam Spot Shape	—	Circular, aspect ratio < 1.1:1	—
Working Condition	—	CW or Modulation	—
Laser -Drive Mode	—	CW , TTL Up to 3kHz , Analog Signal	—
Drive Power Input	—	AC 85 ~ 265	V
Outline Dimensions	—	344.5*140*124.3	mm

■ Outline Dimensions(Unit:mm)



344.5 (L) × 140 (W) × 124.3 (H) mm³, 5.7 kg

■ Power Supply Specifications

C.Adjustable Lab type power supply



■ Cautions

1. Laser light can damage the human eye and skin. Do not expose the eye and skin to any laser light directly or through optical lenses. Focused laser beam through optical instruments will increase the chance of eye hazard.
2. The laser needs a stable driver to avoid surges. The instantaneous reverse current and reverse voltage should not exceed the absolute maximum ratings, otherwise it will damage the laser diode.
3. Semiconductor lasers are sensitive to temperature, working at high temperatures will reduce the photoelectric conversion efficiency and accelerate the aging of laser diode. It should be used under adequate heat dissipation or cooling conditions.
4. The laser should be used at the rated current and rated power, the output power is too high will accelerate the aging of laser diode.
5. Semiconductor lasers are electrostatic sensitive devices, anti-static measures should be taken during storage and transportation.
6. Lasers should be stored or work in a dry, ventilated environment to prevent damage to the laser from condensation.
7. The light emitting surface (cavity surface) is the key parts of the laser diode, any handling to damage the cavity surface should be strictly prohibited. It should be ensured that the laser diode is not contaminated, and damaged in mechanical.
8. The fiber should not be bent at large angles, it should be ensured that the diameter of the bend should be more than 300 times the diameter of the fiber.

