MPL-S-1064B-HP

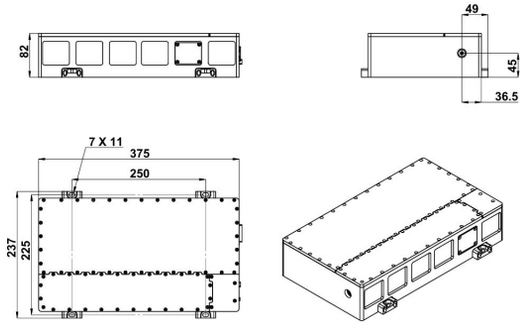
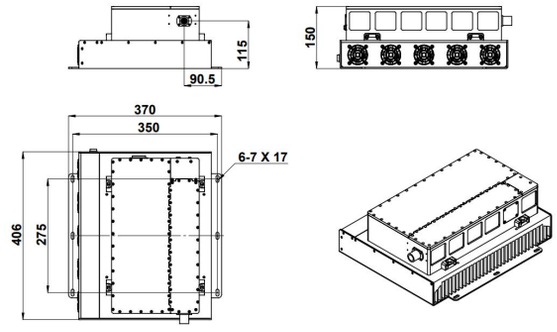
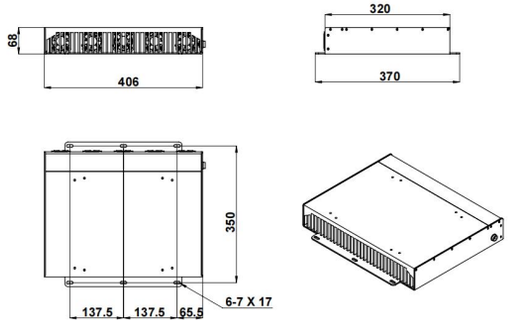
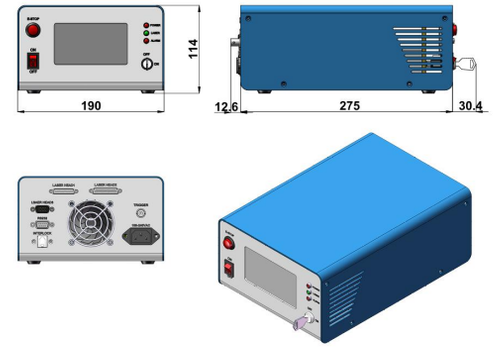
HIGH ENERGY DIODE PUMPED ALL-SOLID-STATE PASSIVELY LASER

All-solid-state passive lasers, which feature high peak power and short pulse duration, are widely used in scientific research, laser micromachining, lidar ranging, environmental monitoring, laser ultrasonic testing, and LIBS (Laser-Induced Breakdown Spectroscopy).

SPECIFICATIONS

Wavelength (nm)	1064±1
Operating mode	Passively
Average power (mW)[1]	~2000
Single pulse energy (μJ)	~50
Pulse duration (ns)	~0.7
Peak power (kW)	71.4
Rep. rate[2]	30-50kHz
Power stability (rms, 4 hours ±3°C)	<5%, <3%
Transverse mode	TEM_{00}
Beam diameter at the aperture (mm)	~1.5
Beam divergence, full angle (mrad)	<1.5
Warm-up time (minutes)	<5
Beam height from base plate (mm)	45
Cooled method	Fan cooled
Operating temperature (℃)	10-35
Power supply (100-240VAC)	PSU-S-HP
Expected lifetime (hours)	>10000

Website: http://www.cnilaser.com E-mail: sales@cnilaser.com Tel: +86-431-85603799 Fax: +86-431-89216068

LASER HEAD[3]	LASER HEAD (Fan cooled)
	
375(L)×237(W)×82(H) mm³, 10.5kg	406(L)×370(W) ×150(H) mm³, 21.0kg
HEATSINK (optional TC-HP-FS)	POWER SUPPLY[4]
	
406(L)×370(W) ×68(H) mm³, 10.5kg	318(L)×190(W) ×114(H) mm³, 3.2kg

1 Average power (mW)= Single pulse energy (μJ)* Rep. rate(kHz)

2 The rep.rate is a free running value within the range.

3 The laser head needs to be used on a heat sink with good heat dissipation.

4 Output power adjustable 10-100%; RS232 control optional.

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