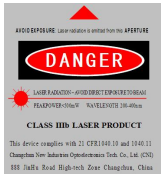
MPL-S-532B-HP

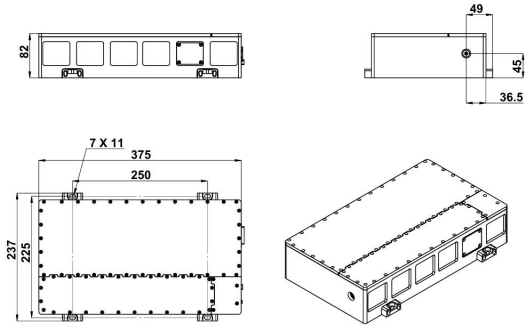
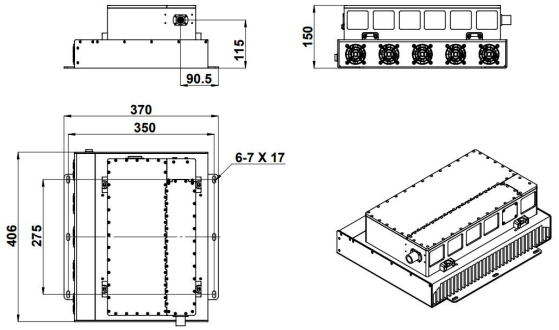
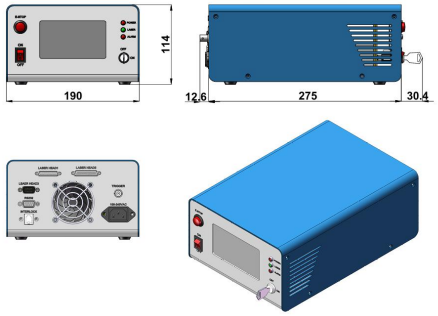
HIGH ENERGY DIODE PUMPED ALL-SOLID-STATE PASSIVELY LASER



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)	532±1
Operating mode	Passively
Average power (mW)[1]	60-900
Single pulse energy (μJ)	1-22.5
Pulse duration (ns)	~0.7
Peak power (kW)	1.4-32.1
Rep. rate[2]	~40kHz
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

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**
WATER CHILLER (WCH-580)	**POWER SUPPLY[4]**
	
253.2(L) ×363.8(W) ×240.6(H) mm³, 11.0kg	**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.

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.