



MPL-S-532B-HP

HIGH ENERGY DIODE PUMPED ALL-SOLID-STATE PASSIVELY LASER

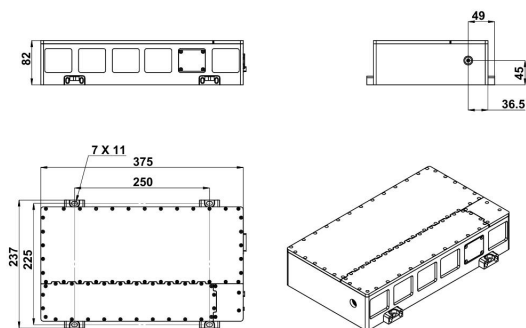
All-solid-state passive lasers, which feature high peak power and short pulse duration, are widely used in scientific research, laser micromachining, lidar ranging, environmental monitoring, laser ultrasonic testing, and LIBS (Laser-Induced Breakdown Spectroscopy).



SPECIFICATIONS

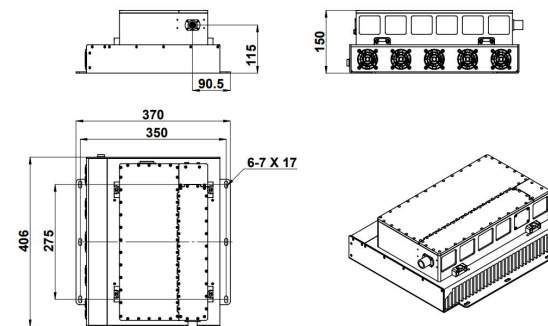
Wavelength (nm)	532±1
Operating mode	Passively
Average power (mW) ¹	60-900
Single pulse energy (μJ)	1-22.5
Pulse duration (ns)	~0.7
Peak power (kW)	1.4-32.1
Rep. rate ²	~40kHz
Power stability (rms, 4 hours ±3°C)	<5%, <3%
Transverse mode	TEM ₀₀
Beam diameter at the aperture (mm)	~1.5
Beam divergence, full angle (mrad)	<1.5
Warm-up time (minutes)	<5
Beam height from base plate (mm)	45
Cooled method	Fan cooled
Operating temperature (°C)	10-35
Power supply (100-240VAC)	PSU-S-HP
Expected lifetime (hours)	>10000

LASER HEAD³



375(L)×237(W)×82(H) mm³, 10.5kg

LASER HEAD
(Fan cooled)



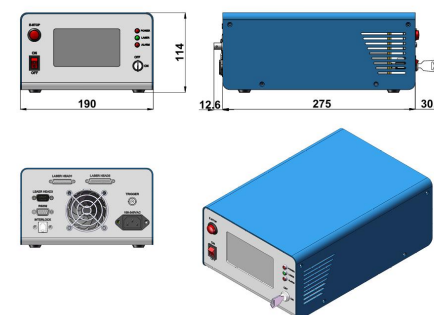
406(L)×370(W) ×150(H) mm³, 21.0kg

WATER CHILLER (WCH-580)



253.2(L) ×363.8(W) ×240.6(H) mm³, 11.0kg

POWER SUPPLY⁴



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.