



MPL-S-532A-HP

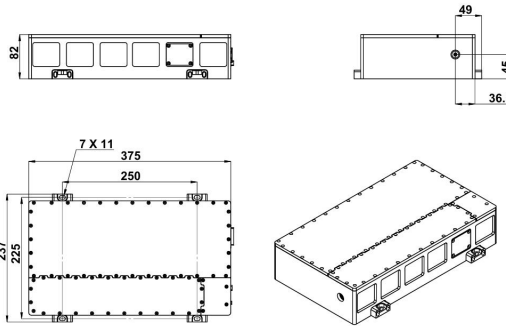
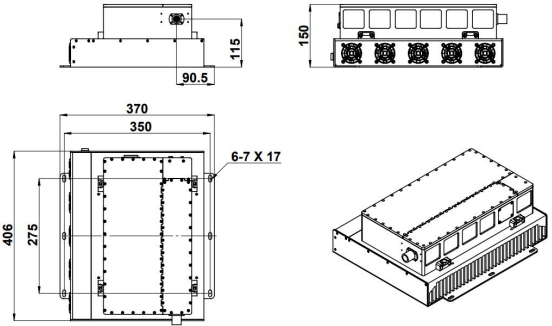
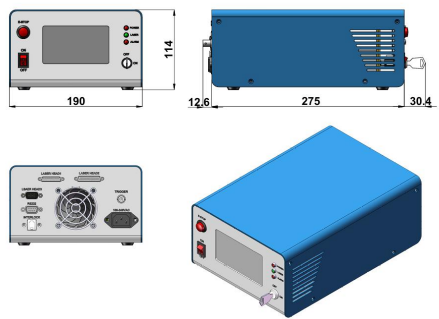
HIGH ENERGY DIODE PUMPED ALL-SOLID-STATE PASSIVELY LASER

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	100-1500
Single pulse energy (μJ)	1-15
Pulse duration (ns)	~0.5
Peak power (kW)	2-30
Rep. rate ²	~100kHz
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 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.



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DATA SHEET