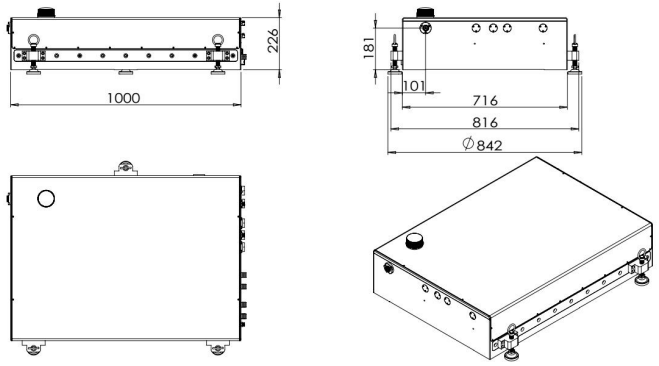
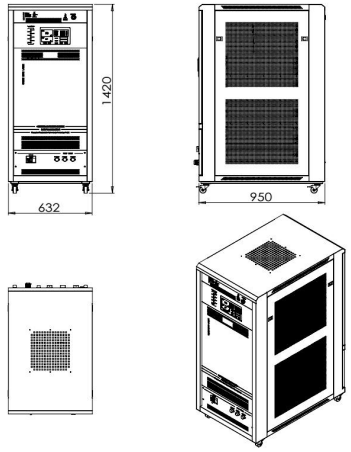
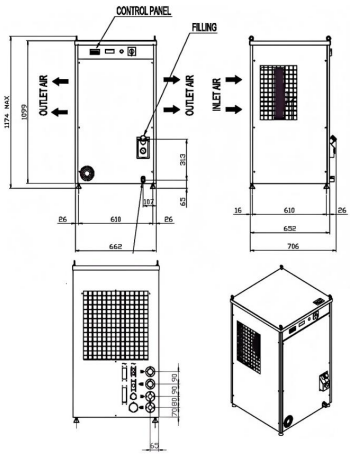
LGS-589.159-PS/1-25W

MODE-LOCKED MACRO-MICRO-PULSED LASER AT 589.159nm

All solid state Mode-locked laser at 589.159nm has the features of high peak power, high repetition rate, and short pulse duration, which is widely used in Laser Guide Star(LGS), Laser radar, Atomic cooling, Laser medical treatment, and so on.

SPECIFICATIONS

Wavelength (nm)	589.159±0.001
Operating mode	Actively
Average power (W)[1]	1-25W
Macro-Pulse duration (us)	<160
Macro-Rep. rate	500Hz
Micro-Pulse duration (ns)	<1
Micro-Rep. rate	100±1MHz
Linewidth (GHz)	<1
Power stability (rms)	<5%, <3%
Warm-up time (minutes)	<15
Beam divergence, 1/e^2 (mrad)	<1.5
Beam diameter , 1/e^2 (mm)	1
M^2	<1.5
Beam height from base plate (mm)	181
Cooled method	Water cooled
Operating temperature (℃)	15-35
Power supply (110/220VAC)	PSU-LGS-PS
Expected lifetime (pulses)	10^9

LASER HEAD	POWER SUPPLY	WATER CHILLER(WCH-8500)
		
1000(L) ×816(W) ×226(H) mm³，100kg	**632(L) ×950(W) ×1420(H) mm³，220kg**	**706 (L)×662(W)×1174(H) mm³ , 100kg**

1 Fixed output power.