

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	Mode-locked
Output power (W)	1~25W
Macro-Pulse duration (us)	<160
Macro-Rep. rate (Hz)	500
Micro-Pulse duration (ns)	<1
Micro-Rep. rate (MHz)	100 ± 1
Linewidth (GHz)	<1
Energy stability	<3%, <5%
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 (°C)	15~35
Power supply (220V AC)	PSU-LGS-PS
Expected lifetime (pulses)	10 ⁹
Warranty period	1 year



LGS-589.159-PS	PSU-LGS-PS	WCH-3600
<p>1000(L) × 816(W) × 226(H) mm³, 100kg</p>	<p>632(L) × 950(W) × 1420(H) mm³, 220kg</p>	<p>706 (L) × 662(W) × 1174(H) mm³, 100kg</p>