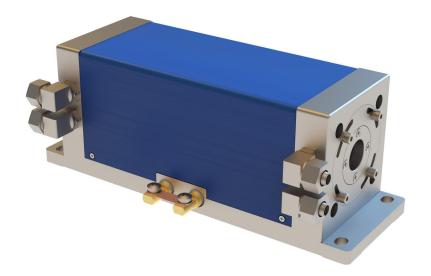
Lumispot Tech OEM DPSS Laser





pumping capability



Uniformity



Macrochannel water cooling



Cost

Low Maintenance



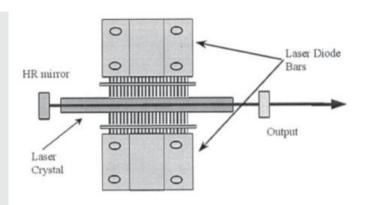
Compact Design



Long Lifespan

Side pumping, also known as transverse pumping, refers to the process where the pumping light from the side of the gain medium is directed into the gain medium, and the laser mode oscillates along the length direction of the gain medium.

Characteristic of side pumping: The direction of the pumping light is perpendicular to the direction of laser output.



CW Diode Pumped Nd: YAG Laser

Lumispot Tech OEM DPSS Laser



pumping capability



Uniformity



Macrochannel water cooling



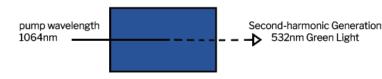
Low Maintenance Cost



Compact Design

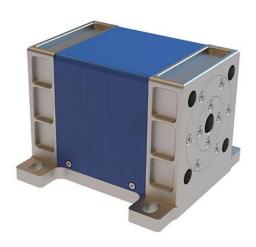


Long Lifespan



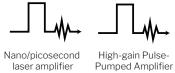


Technical Datasheet



	Q3000-3	Q6000-8	Q16000-10	Q10000-15	Remarks
Pump Wavelength /nm	808±3	808±3	808±3	808±3	@25°C water temp.
Pump Spectral Width /nm	4	4	4	4	
Rated Pump Power /W	3000	6000	16000	10000	Customizable Power Options
Pulse Width /µs	300	300	300	250	
Repetition Frequency /Hz	100	100	100	500	
Threshold Current /A	17	17	17	10	
Operating Current /A	100	100	100	50	
Operating Voltage /V	60	120	320	400	
ND:YAG Doping	0.6at.%	0.6at.%	0.6at.%	0.6at.%	Customizable Doping and Concentration
Excitation Wavelength /nm	1064	1064	1064	1064	
Crystal Size /mm	ø3×95	ø8×85	ø10×135	ø15×167	Low Power Mode Enabled
Recommended Water Cooling Temperature /°C	25	25	25	25	
Recommended Water Pressure /MPa	0.3~0.5	0.3~0.5	0.3~0.5	0.3~0.5	
Recommended Water Flow Rate / L/min	>12	>12	>12	>16	

^{*}Parameters can be customized as demand.











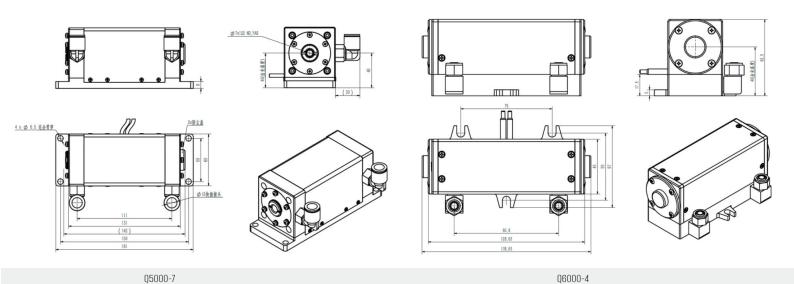


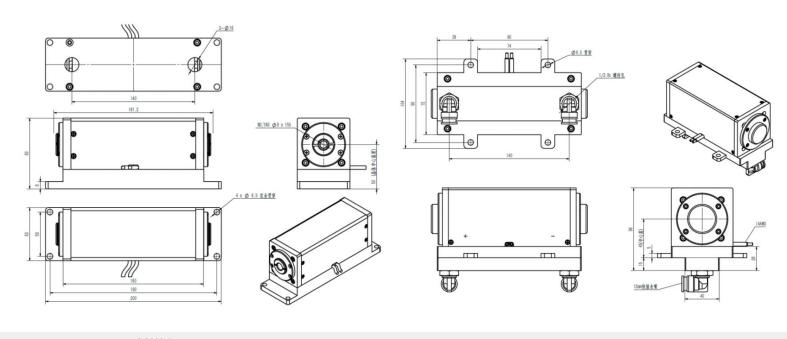
Laser Cutting

Fabrication

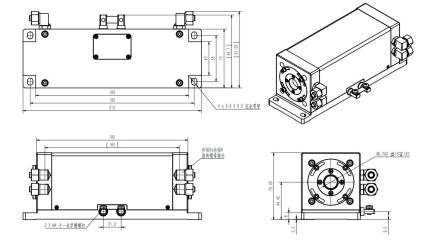
Meteorology

Dimensional Graph

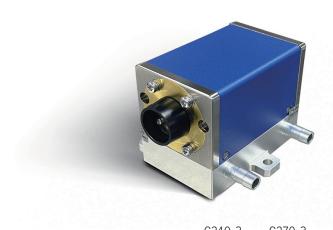




Q15000-8 Q20000-10

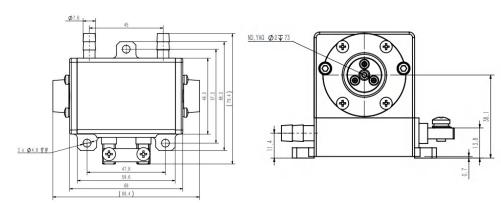


Lumispot Tech OEM DPSS Laser



	C240-3	C270-3	C300-2	C300-3	C600-4	C1500-5	Remarks
Pump Wavelength			808±3nm				@25°C water temp.
Pump Spectral Width			4nm				
Wavelength/Temp. Coefficient			0.28nm/°C				Customizable Power Options
Rated Pump Power	270W	270W	300W	300W	1000W	1500W	
Threshold Current	8A	8A	15A	8A	8A	8A	
Operating Current	20A	20A	25A	25A	30A	30A	
Operating Voltage	24V	28V	24V	24V	40V	100V	
Nd:YAG Doping			0.6at.%				
Excitation Wavelength			1064nm				Customizable Doping and Concentration
Output Power	75W(1)	75W(1)	50W(1)	120W(2)	230W(2)	500W(2)	
Crystal Size	ø3×67mm	ø3×78mm	ø2×73mm	ø3×67mm	ø4×95mm	ø5×167mm	Other size is customizable
Recommended Water Cooling Temp			25°C				
Recommended Water Pressure			0.3~0.5MPa				
Recommended Water Flow	>4L/min	>4L/min	>4L/min	>12L/min	>12L/min	>16L/min	
Module Weight	1kg	1kg	1.5kg	1.5kg	3kg	4.5kg	

- (1) The output power test condition is: 900mm cavity length, T=20%, parallel plane mirrors.
- (2) The output power test condition is: 300mm cavity length, T=20%, parallel plane mirrors.
- (*) For more information on pump power, operating current, gain medium specifications, and doping conditions, please contact Lumispot Optoelectronics Group.







e- Micro-r









Micro-nano Laser Cutting Fabrication

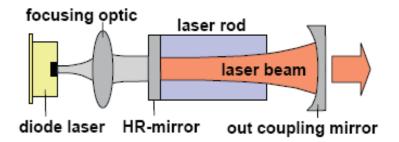
Environment

Meteorology

Medical

High-gain Pulse-Pumped Amplifier

Structure & Primary Production Procedures



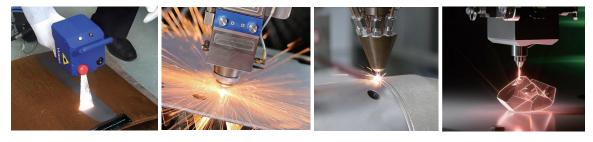
Primary Production Procedures

Undergoing rigorous pre-shipment quality testing



OEM Service

Customization Service available to support all kinds of needs



Laser cleaning, laser cladding, laser cutting, and gemstone cutting cases.

Company Profile

About Lumispot



¥78million Register Capital

6+ Ph.D

80% Proportion of Talent 150+ Patents



Lumispot Technology Group was established in 2010, located in Wuxi with registered capital of CNY 78.55 million, and production area of about 25,000 square meters and more than 500 employees. Through more than 14 years of efforts and development, Lumispot has become a leader in special laser information technology domain with a strong technical foundation.

Our expertise focusses on laser technology research & development, offering a wide range of products including laser diode, erbium laser, fiber lasers, solid-state lasers, and its system, such as laser rangefinder modules, LiDAR lasers, structured lasers, illumination systems, FOG components, dazzlers, etc. which are widely applied for defense & security, LiDAR system, remote sensing, inertial navigation, technical research, etc.

Our company is rewarded as National High-tech Enterprise and National Innovation enterprise, and more than 150 patent have been obtained.

Contact

Email: sales@lumispot.cn Website: www.lumispot-tech.com 2010

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