



# LED-pumped Nd:YAG Laser Gain Module



## Unbeatable Features

- High Stability
- Long Lifetime
- Low Maintenance Cost
- > 1.6 J/ms QCW Pulse Energy
- > 80 W Average Power
- > 20 MW Q-Switched Peak Power
- 10~1000 Hz or CW Operation

## Applications

- Laser Amplifier: Multi-pass Amplifier, Regenerative Amplifier
- Laser Oscillator: AO, EO, PQS
- LIBS
- Circuit Trimming
- Material Processing
- Photoacoustic Imaging

## SiC Drilling



## Si Drilling



## Metal Drilling



# • Module Specification

<b>Model</b>	<b>M-1064-B8120</b>
<b>Wavelength</b>	<b>1064 nm</b>
<b>Rod doping</b>	<b>~ 1.1% Nd:YAG</b>
<b>Rod size / coating</b>	<b>ϕ 8x120 mm, AR/AR @1064nm</b>
<b>Pulse energy (@ 10 Hz)</b>	<b>&gt; 1.6 J<sup>a</sup></b>
<b>Average power</b>	<b>&gt; 80 Watt<sup>a</sup> @ 100Hz</b> <b>&gt; 50 Watt<sup>b</sup> @ CW</b>
<b>Pulse rate</b>	<b>10-1000 Hz, 10% duty cycle up to CW</b>
<b>Pulse width</b>	<b>100 ~ 750 μs</b>
<b>Dimensions</b>	<b>188 (L) x 75 (W) x 56.2 (H) mm</b>
<b>Weight</b>	<b>&lt; 1.5 kg</b>
<b>Operation condition</b>	<b>15~25°, &lt; 50% RH</b>
<b>Storage condition</b>	<b>10~40°, &lt; 60% RH</b>
<b>Power consumption</b>	<b>&lt; 2 kW</b>
<b>Water flow rate</b>	<b>&gt; 7 liters/min</b>

- a. Flat-flat cavity with a length of 300 mm, HR/PR65%@1064nm, 10Hz, 750-μs pumping, 16 °C cooling water.
- b. Flat-flat cavity with a length of 300 mm, HR/PR98%@1064nm, 1.3-kW CW pumping, 16 °C cooling water.
- Product performance is improved over time and specifications are subject to change without notice.

