

1064 nm Nanosecond Pulse Laser for Laser Marking

Model #: FL-1064

Description: This 1064 nm Nanosecond Pulse Laser is an End-pumped Solid State Laser with Fiber pigtail which features ultra-compact, long lifetime, cost-effective and easy operation. It is the best solution for Laser Marking


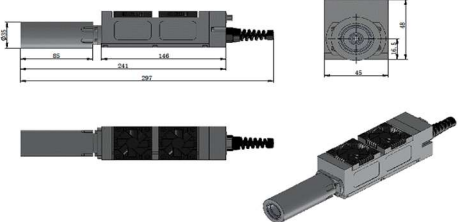
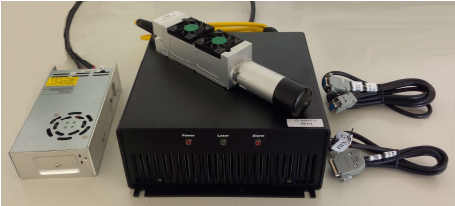
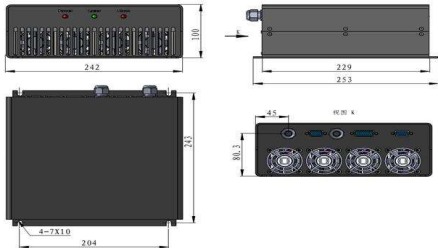
- 40~100kW peak power, higher than ordinary fiber laser marking machine
- 2ns short pulse duration, short acting time, low heat effect
- Small volume can match with market mainstream rack
- Scientific research quality standard, <1% power stability
- Industrial product flow
- 12 quality inspection procedures
- Stable and reliable product quality

Application: It is innovatively designed with end pumped laser technology. The 2ns short pulse duration produces 10 times higher peak power than ordinary fiber laser marking system. It has greatly improved marking process in accuracy and efficiency which is especially helpful for plastic heat sensitive materials. It will not burn material with excessive heat. It is widely used to various plastic materials, and has wide applications in electronic shell marking.

Specifications

Wavelength (nm)	1064 ± 1		
Operation Pattern	Q-switched		
Model Number	FL-1064-3W	FL-1064-6W	FL-1064-8W
Output Power (W)	3	6	8
Transverse Mode	TEM00		
Pulse Width (ns)	~ 5	~ 8	~ 6
Peak Power (kW)	~ 30		~ 50
Pulse Repetition Rate (kHz)	~ 20		~ 25
Power Stability (rms, over 4 hours)	< 1%, <3%, 5%		
Beam Divergence, Full Angle (mrd)	<1.5	<2	<1.2
Beam Diameter at aperture (1/e ² , mm)	~ 6.0		~ 7.0
Beam Height from Base Plate (mm)	16.5		
Operating Temperature (C°)	10 ~ 35		
Power Supply (90-264VAC or 5V DC)	PSU-FL-FDA (12V/25A DC switching power supply) and portable power supply 253(L)× 242(W)× 100(H) mm ³ , 5.5 kg		
Expected Lifetime (hours)	20000		
Warranty Period	1 year		

Laser Dimension

<p>FL-1064-6W Head</p>	<p>FL-1064-6W 297(L)×45(W) ×48(H) mm³, 0.9kg</p>
	
	
<p>FL-1064-6W Laser System</p>	<p>PSU-FL-FDA 253(L) ×242(W) ×100 (H) mm³, 5.5 kg</p>

Laser Marking Examples

<p>Plastic Marking</p>	<p>Glass Marking</p>
	
<p>Plastic Marking</p>	<p>Metal Marking</p>
	
	

