

Model 481/481Q

High Power, Diode-Pumped CW & Q-Switched Nd: YAG Laser



The innovative laser optics design and industrial-grade power supply of the Model 481/481Q provides an extraordinarily reliable and rugged choice for industrial use. A totally solid state laser for trouble-free manufacturing!

Performance		
Wavelength	1.064 μm	
Transverse Mode	TEM ₀₀	
Beam Diameter	1 mm	
Beam Divergence	<1.2 mr	
Polarization	Linear	
CW (Continuous) Performance		
Output Power	18-20 Watts	
Stability	<2 % rms	
Q-Switched (Pulsed) Performance		
Frequency	1 kHz	10 kHz
Average Power	3 Watts	12 Watts
Pulse Width	<60 ns	<100 ns
Peak Pulse Power	50 kW	12 kW
Pulse Stability	4 % rms	5 % rms
Mechanical		
Optical Rail Length	46" (L) x 10" (W) x 9" (H)	
Power Supply Dimension	39" (H) x 22" (W) x 33" (D)	
Electrical Power		
Recommended Service	220 \pm 10% VAC, 1 Φ , 50/60 Hz, 15A	
Average Consumption	3 kW, Maximum	
Cooling		
Internal, refrigerator chiller	No external water required	

- Efficient solid state diode optical pumping for improved performance and reliability.
- High power from small diameter, low divergence beam.
- Highly circular fundamental mode beam profile.
- Q-Switched pulse stability <5% peak-to-peak up to 10 kHz.
- Self contained refrigerator/chiller for precise water temperature control

U.S. LASER CORPORATION



825 Windham Court North, Wyckoff, NJ 07481
 Tel: 201-848-9200 Fax: 201-848-9006
www.uslasercorp.com