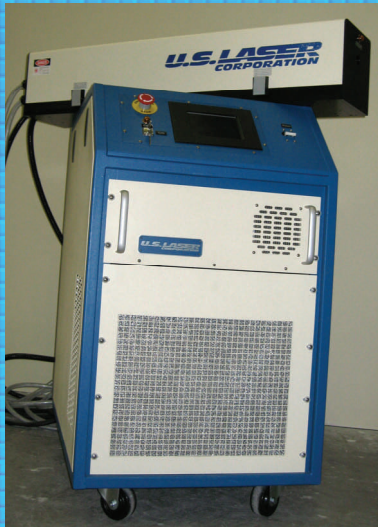


# Model 480/480Q

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



The innovative laser optics design and industrial-grade power supply of the Model 480/480Q provides an extraordinarily reliable and rugged choice for industrial use. A totally solid state laser for trouble-free manufacturing!

Performance		
Wavelength	1.064 $\mu\text{m}$	
Transverse Mode	TEM <sub>00</sub>	
Beam Diameter	1 mm	
Beam Divergence	<1.2 mr	
Polarization	Linear	
CW (Continuous) Performance		
Output Power	8-10 Watts	
Stability	<2 % rms	
Q-Switched (Pulsed) Performance		
Frequency	1 kHz	10 kHz
Average Power	1.5 Watts	6 Watts
Pulse Width	<60 ns	<100 ns
Peak Pulse Power	25 kW	6 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 $\Phi$ , 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

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