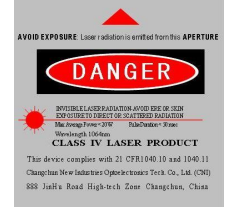


FS-Y

## FEMTOSECOND PULSED LASER

Femtosecond pulsed laser at 343nm is made features of short pulse duration, high repetition rate, high average power and good beam quality, which is used in sapphire marking, ceramic cutting, semiconductor cutting, film scribing, physics experiment, etc.



### SPECIFICATIONS

Wavelength (nm)	343±5	515±5	1030±5
Average power (W)	1~5W (5W@1MHz)	1~20W (20W@1MHz)	1~50W (50W@1MHz)
Single pulse energy ( μ J)	5 (5 μ J @1MHz)	20 (20 μ J @1MHz)	50 (50 μ J @1MHz)
Rep. rate (MHz)	500kHz~2MHz	500kHz~2MHz	500kHz~2MHz
Pulse duration (fs)	<300fs @1MHz,5W.	<300fs @1MHz,20W.	<300fs @1MHz,50W.
Peak power (MW)	17 @1MHz	67 @1MHz	167 @1MHz
Ave power stability (over 4 hours)	<3%	<3%	<3%
Warm-up time (minutes)	<10	<10	<10
Transverse mode	TEM <sub>00</sub>	TEM <sub>00</sub>	TEM <sub>00</sub>
Beam quality(M <sup>2</sup> )	<1.3	<1.3	<1.3
Beam divergence, full angle (mrad)	<3.0	<3	<1.0
Beam diameter at the aperture (1/e <sup>2</sup> ,mm)	~1.0	~1	~3.0
Polarization ratio	>100:1	>100:1	>100:1
Beam height from base plate (mm)	On request	On request	On request
Cooled method	Water cooled	Water cooled	Water cooled
Operating temperature (°C)	15~35	15~35	15~35
Power supply (220/110VAC)	On request	On request	On request
Expected lifetime (hours)	10000	10000	10000
Warranty period	1 year	1 year	1 year