

AOFemto Jericho Series

Industrial Green femtosecond laser

- < Pulse width < 800 fs
- < Beam roundness up to 95%
- < Maximum output power up to 30 W
- < Both edge trigger and level trigger are available
- < SYNC output function available
- < Reliable pulse stability (<2%)

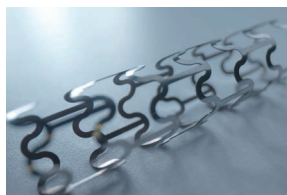


► Features & Benefits:

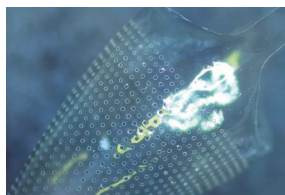
AOFemto Jericho femtosecond Green lasers feature excellent beam quality ($M^2 < 1.2$) with a beam roundness up to 95%. The pulse stability and power stability of the laser are excellent. The output power of the laser is in the range from 5 W to 30 W.

The lasers can be controlled via external trigger signals. Both high/low level trigger and rising/falling edge trigger are available. The rising/falling edge trigger mode enables Pulse-on-demand (POD) functionality. In addition, the output power of the laser can be controlled through external analog voltage signal.

With a pulse width of <800fs, there is almost no heat damage during processing. The AOFemto Jericho femtosecond green lasers are suitable for high-precision laser micro-machining applications, including medical device manufacturing, Nitinol metal cutting, polymer material cutting and drilling, and so on.



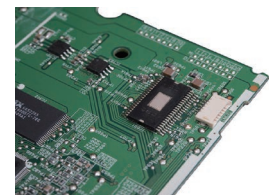
Medical device manufacturing



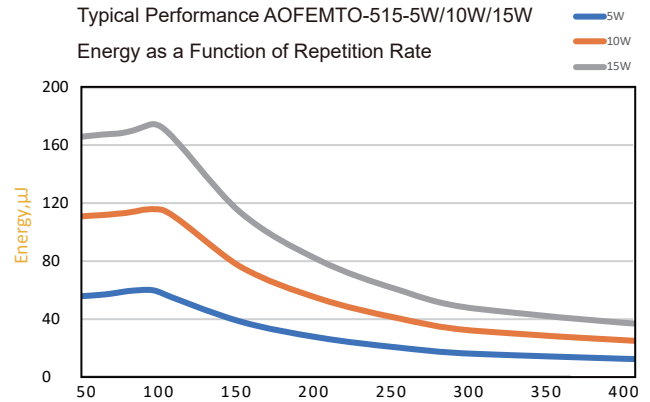
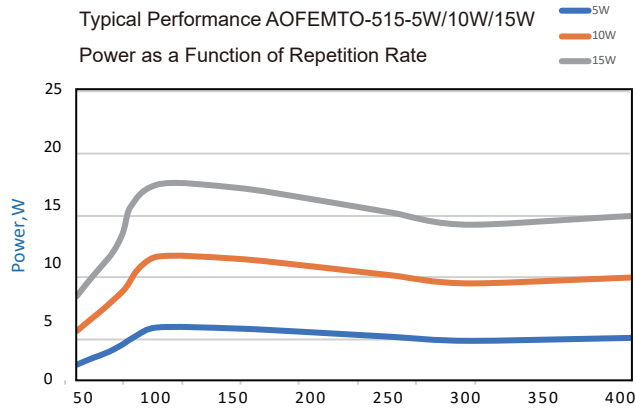
Balloon hole drilling



High-accuracy/High-speed/
Micro-machining



Semiconductor/Solar processing/
Wafer scribing



AOFEMTO Jericho 515			
Specification	5W-100K	10W-100K	15W-100K
Wavelength (nm)	515		
Average Power (Watts)	> 5W@100KHz	>10@100KHz	>15@100KHz
Energy (μJ)	> 50	> 100	> 150
Specified Repetition Rate(kHz)	100	100	100
Repetition Rate (kHz)	100k-1M		
Pulse Width (fs)	< 800		
Beam Quality (M ²)	< 1.2		
Beam Roundness (%)	> 90		
Beam Diameter (mm)	< 3		
Beam Divergence (mRad)	< 2		
Point Stability (μrad/°C)	< 50		
Polarization Ratio	100:1 Linear,Horizontal		
Pulse-to-Pulse Stability (% RMS)	< 2% RMS over 10hours		
Average Power Stability(% over12 hours)	< 3		
Cold Start Warm-Up (mins.)	< 45		
Standby Warm-Up (mins.)	< 15		
Operational Temperature Range (°C)	15 to 35		
Operation Humidity Range (%)	20 to 80,Non-condensing		
Storage Temperature Range (°C)	- 20 to 50		
Storage Humidity Range (%)	20 to 80,Non-condensing		
Input Voltage (VDC)/Rated Power(W)	24 / 1000		
Communication	RS232		
Cooling	Water		

AOFemto Jericho SERIES

AOFEMTO Laser CAD Drawing

