

AOPico Montauk Series

Industrial Green picosecond laser

- < PoD function available
- < Both edge trigger and level trigger are available
- < 1 ~ 10 pulses burst mode available
- < Excellent beam quality ($M^2 < 1.1$)
- < Laser output power can be controlled through external analog voltage signal
- < Real-time laser status monitoring and intelligent diagnosis



► Features & Benefits:

AOPico Montauk-532 series green picosecond lasers feature world-leading second-harmonic generation technology. Advanced technology ensures excellent beam quality, extends the crystal's lifetime, and improves laser stability.

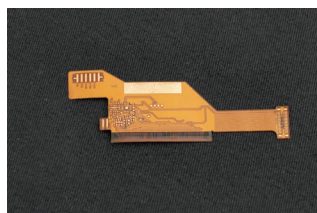
AOPico Montauk green lasers feature excellent beam quality ($M^2 < 1.1$) with beam roundness up to 90%. The pulse stability and power stability of the laser are excellent. The output power of the laser is in the range from 10W to 80W. The output of the laser can be in burst mode with higher output pulse energy, with which the profile can be edited to meet the requirements of various industrial applications.

The lasers can be controlled via external gate/trigger signals. Both high/low level gate and rising/-faling 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. The lasers also have the functions of, power display, laser status real-time monitoring, and intelligent diagnostics.

With these advantages, AOPico Mantaug picosecond Green lasers are the best choice for the applications of optical filter cutting, solar cell scribing, ITO scribing, and so on.



PI cutting



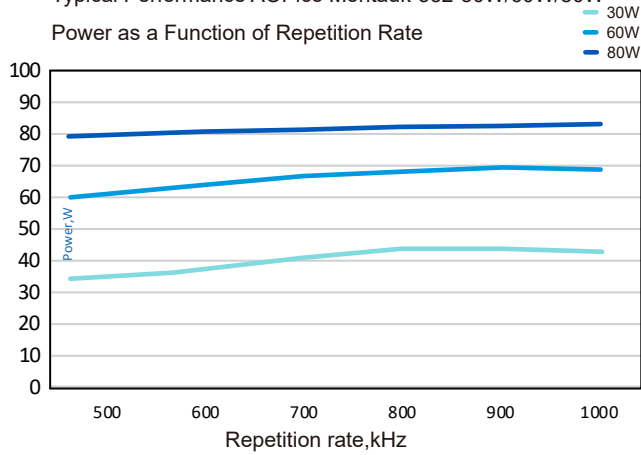
FPC cutting



Solar cell scribing

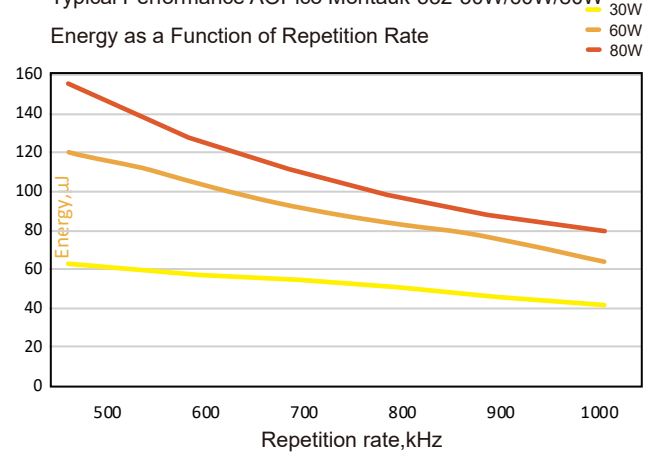
Typical Performance AOPico Montauk-532-30W/60W/80W

Power as a Function of Repetition Rate



Typical Performance AOPico Montauk-532-30W/60W/80W

Energy as a Function of Repetition Rate

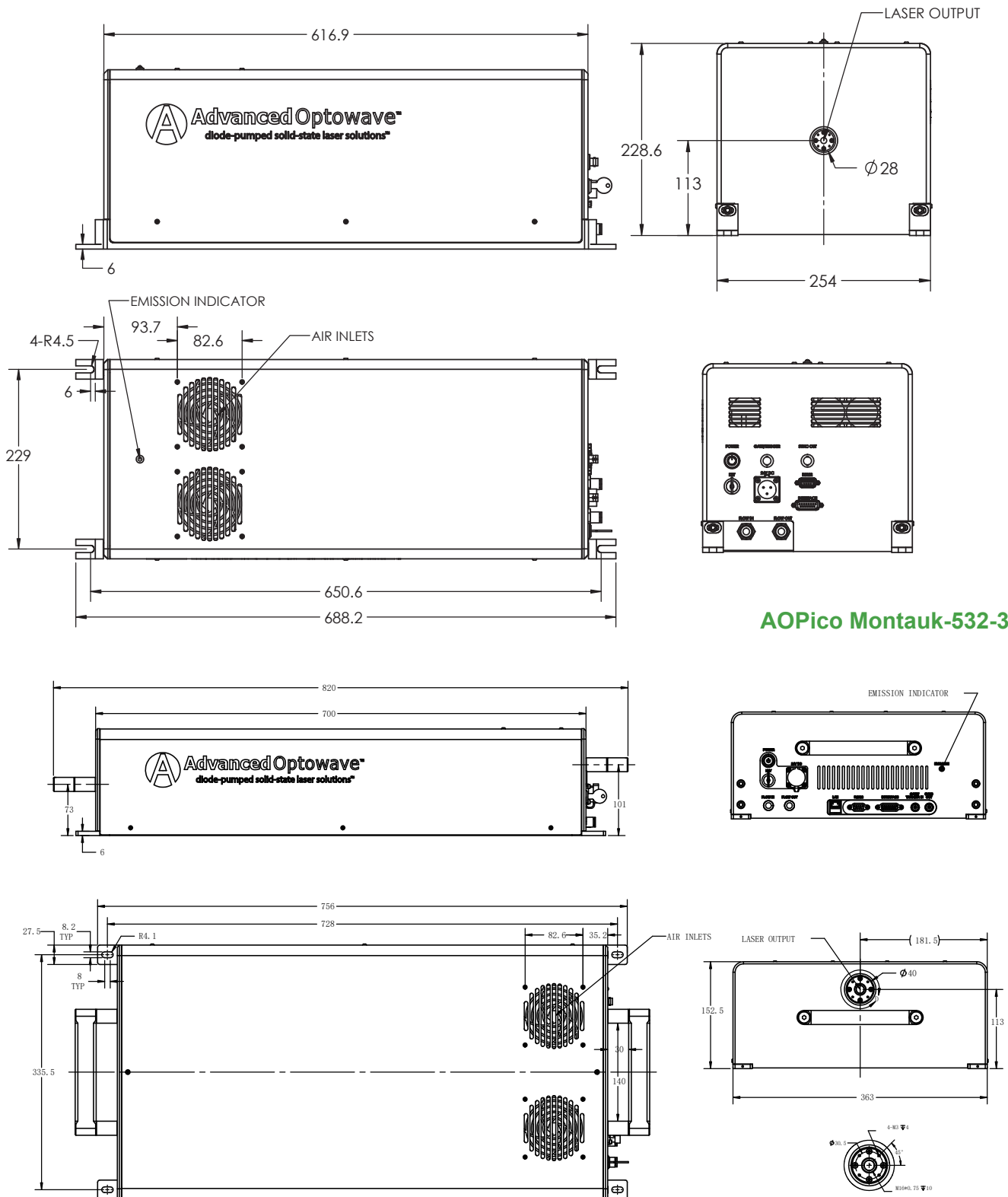


AOPICO MONTAUK 532

Specification	30W-1000K	60W-1000K	80W-400K
Wavelength (nm)	532		
Average Power (Watts)	>30	>60	>80
Energy (μJ)	>30@1000KHz	>60@1000KHz	>200@400KHz
Specified Repetition Rate(kHz)	1000		
Repetition Rate (kHz)	100~2500	100~2500	100~2500
Pulse Width (ps)	< 12		
Beam Quality (M ²)	≤1.1		
Beam Roundness (%)	> 90		
Beam Diameter (mm)	< 3		
Beam Divergence (mRad)	< 2		
Point Stability (μrad/°C)	< 20		
Polarization Ratio	100:1 Linear,Vertical		
Pulse-to-Pulse Stability (% RMS)	< 2		
Average Power Stability(% over12 hours)	< 3		
Cold Start Warm-Up (mins.)	< 40		
Standby Warm-Up (mins.)	< 10		
Operational Temperature Range (°C)	15-35°C		
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		36/1600
Communication	RS232		
Cooling	Water		

AOPico Montauk SERIES

AOPico Montauk - 532 Laser CAD Drawing



AOPico Montauk-532-30W

AOPico Montauk-532-60W/80W