power.

Power boost for all wavelengths



ALS-SFG

Sum Frequency Generation

- High power up to 10W
- Easy combination of any of our IR fiber lasers and amplifiers
- Compatible with our resonant doubling solutions
- Industrial grade design, compact and coolerless laserhead

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ALS-SFG



DANGER – VISIBLE AND INVISIBLE LASER RADIATION, AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION, CLASS 4 LASER PRODUCT, EN 60825-1:2014+A11:2021 / IEC 60825-1:2014

Specifications					
Wavelength* [nm]	604	610	634	646	840
Max. output power [W]	8	10	10	10	10
Single frequency compatible	Yes				
Spatial mode	TEM_{00}				
Beam quality	$M^2 < 1.1$				
Beam diameter « free space » [mm]	1.0 ± 0.2				
Long term power stability (CP mode of operation)	< ± 1 % RMS				
Intensity noise [100 Hz - 10 MHz]	< 0.02 % RMS				
Added phase noise**	None				
Output polarization	Vertically polarized > 300 : 1				
Output power tunability	1 to 100 %				

* Wavelength available within 3 ranges: 596 to 604; 610 to 708; 813 to 873 nm
** Please enquire for available seed lasers

Example of frequency converted systems					
Wavelength [nm]	302	305	317	323	420
Max. output power [W]	1	1	3	3	5

