

LS-2138N, LS-2138N-TF, LS-2138N/100

LS-2138N, LS-2138N-TF, and LS-2138N/100 are the modern improved models of LOTIS TII high repetition rate Q-switched lasers for technology, medicine and various kind of scientific applications.

HIGH REPETITION RATE LASER

Main features:

-New laser head design provides easy switchable of all output wavelengths including 1064 nm without removing protective cover and additional alignment.

-The telescopic stable resonator has given the benefits of uniform beam quality, high energy and low beam divergence.

-High stability and durability of the output parameters are provided by special temperature control of nonlinear and Q-switched crystals as well as laser resonator special design.

-Full PC-control wavelength switching options are available on request.



SPECIFICATIONS¹

Model	LS-2138N	LS-2138N-TF	LS-2138N/100	
Energy, mJ	1064 nm 532 nm 355 nm 266 nm 213 nm	220 115 - - -	220 115 45 30 6 ³	200 100 40 ² 25 ² 5 ³
Pulse duration (FWHM at 1064 nm), ns	10-12			
Pulse repetition rate, Hz	50		100	
Beam divergence ($\Theta_{0.86}$), mrad	≤1.5			
Beam diameter, mm	≤5			
Jitter ⁴ , ns	±1.5			
Energy stability 1064nm (StDev), %	≤2.0			
Size L x W x H, mm (Weight, kg)				
Laser head	820x304x143(26.0)	1020x304x143(30.0)	820x304x143(26.0)	
Power supply	391x364x192(16.5)	391x364x192(16.5)	391x364x192(16.5)	
Cooling system	590x380x740(37.0)	590x380x740(37.0)	590x380x740(37.0)	
Remote control	105 x 175(0.5)	105 x 175(0.5)	105 x 175(0.5)	
Power requirements	Single phase, 220±20V, 50/60 Hz, 2000 W		Single phase, 220±20V, 50/60 Hz, 3500 W	

¹ All specifications are subject to change without notice

² With external harmonic generator HG-TF

³ With external harmonic generator HG-Fifth

⁴ With respect to external trigger of Q-switch

Overall sizes of LS-2138N-TF

