

# HG | FLINT

## Automated Second Harmonic Generator

### FEATURES

- 515 nm output
- Automated harmonic selection
- Integrated into the system
- Industrial-grade design



FLINT-FL2 with integrated HG

FLINT oscillators equipped with an automated second harmonic generator (HG) provide a selection of fundamental (1H) or second harmonic (2H) outputs using software control. The HG is fully integrated into the industrial-grade system.

In case fundamental and second harmonic outputs are required simultaneously or higher harmonics are required, then HIRO harmonic generator is the solution.

### SPECIFICATIONS

Model	FL2-SP	FL2			
Key feature	Short pulse	High power and high energy			
Pulse duration <sup>1)</sup>	< 100 fs <sup>2)</sup>	< 170 fs			
Repetition rate	76 MHz	11 MHz	20 MHz	40 MHz	76 MHz
Maximum 1H output power	2 W	7 W	12 W	20 W	20 W
2H generation efficiency		> 30%			
Center wavelength	520 ± 10 nm	515 ± 10 nm			513 ± 2 nm
Polarization		Linear, horizontal			
Beam quality		TEM <sub>00</sub> ; M <sup>2</sup> < 1.2			
Beam pointing stability		< 10 μrad/°C			
Pulse-to-pulse energy stability <sup>3)</sup>		< 0.5% RMS deviation <sup>4)</sup> over 24 h			
Long-term power stability <sup>3)</sup>		< 0.5% RMS deviation <sup>4)</sup> over 100 h			

### PHYSICAL DIMENSIONS

Laser head (L × W × H)	542 × 322 × 146 mm
Power supply and chiller rack (L × W × H)	642 × 533 × 673 mm
Chiller	Different options available. Contact sales@lightcon.com

<sup>1)</sup> Models with shorter pulse duration available upon request

<sup>2)</sup> Typical value.

<sup>3)</sup> With enabled power-lock, under stable environmental conditions.

<sup>4)</sup> Normalized to average pulse energy, NRMSD.

