

## Integrated Harmonic Generators

515 nm, 343 nm, 257 nm,  
 or 206 nm output

Automated harmonic selection

Industrial-grade design



PHAROS with  
 a harmonic generator

### Specifications

Model	2H (-HE)	2H-3H (-HE)	2H-4H (-HE)	4H-5H
Output wavelength <sup>1)</sup> (automated selection)	1030 nm 515 nm	1030 nm 515 nm 343 nm	1030 nm 515 nm 257 nm	1030 nm 257 nm 206 nm
Pump pulse energy <sup>2)</sup>	20 – 2000 $\mu$ J	20 – 2000 $\mu$ J	20 – 2000 $\mu$ J	200 – 2000 $\mu$ J
Pump pulse duration	100 – 500 fs			
Conversion efficiency	> 50% (2H)	> 50% (2H) > 25% (3H)	> 50% (2H) > 10% (4H) <sup>3)</sup>	> 10% (4H) <sup>4)</sup> > 5% (5H) <sup>5)</sup>
Beam quality, M <sup>2</sup>	$\leq$ 400 $\mu$ J pump	< 1.3 (2H)	< 1.3 (2H) < 1.4 (3H) n/a (4H)	n/a
	> 400 $\mu$ J pump	< 1.4 (2H)	< 1.4 (2H) < 1.5 (3H) n/a (4H)	

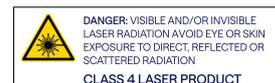
<sup>1)</sup> Depends on the pump laser model.

<sup>2)</sup> For more pump energy options contact sales@lightcon.com

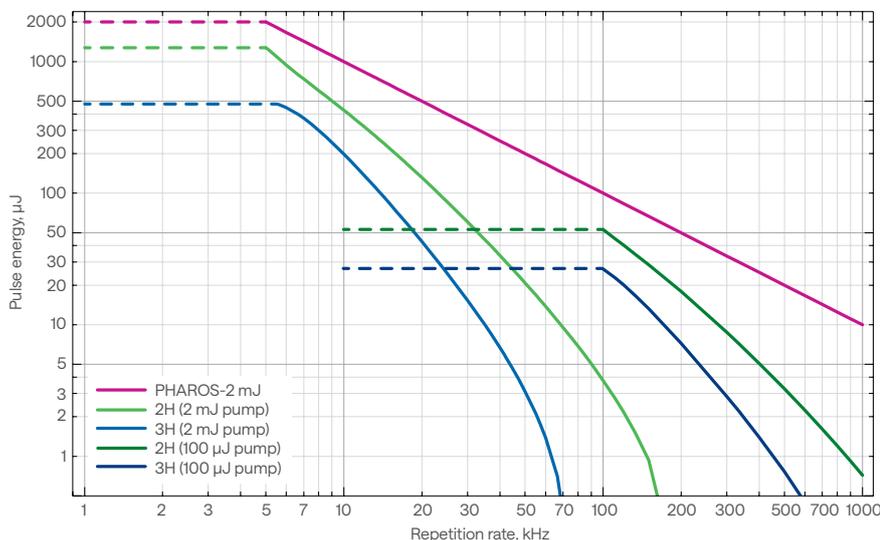
<sup>3)</sup> Maximum output power: 2 W at 20 – 1000  $\mu$ J pump energy, or 1 W at 1000 – 2000  $\mu$ J pump energy.

<sup>4)</sup> Maximum output power of 1 W.

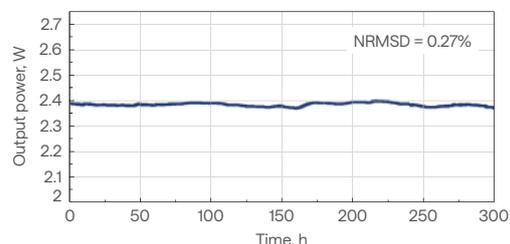
<sup>5)</sup> Maximum output power of 150 mW.



PHAROS with a harmonic generator  
 Pulse energy vs repetition rate



3H output power stability



4H output power stability

