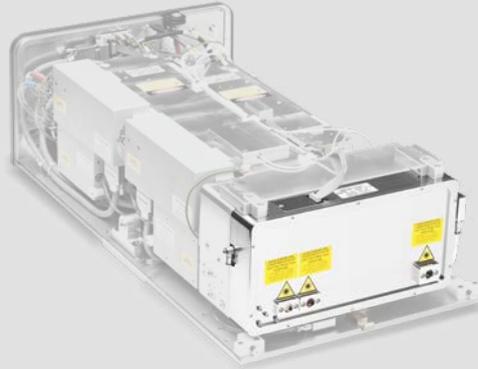


Integrated Harmonic Generators

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 ¹⁾ (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 ²⁾	20 – 2000 μ J	20 – 2000 μ J	20 – 2000 μ J	200 – 2000 μ J
Pump pulse duration	100 – 500 fs			
Conversion efficiency	> 50% (2H)	> 50% (2H) > 25% (3H)	> 50% (2H) > 10% (4H) ³⁾	> 10% (4H) ⁴⁾ > 5% (5H) ⁵⁾
Beam quality, M ²	\leq 400 μ J pump	< 1.3 (2H)	< 1.3 (2H) < 1.4 (3H) n/a (4H)	n/a
	> 400 μ J pump	< 1.4 (2H)	< 1.4 (2H) < 1.5 (3H) n/a (4H)	

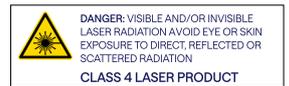
¹⁾ Depends on the pump laser model.

²⁾ For more pump energy options contact sales@lightcon.com

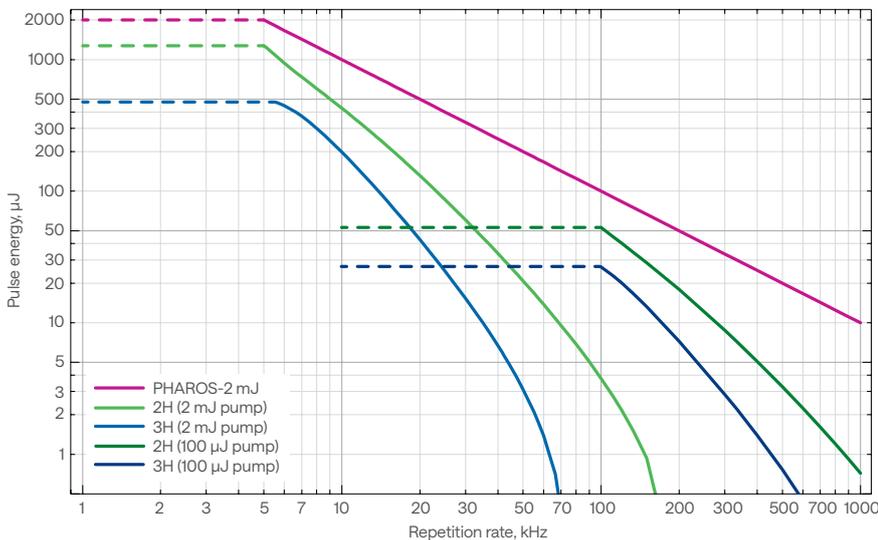
³⁾ Maximum output power: 2 W at 20 – 1000 μ J pump energy, or 1 W at 1000 – 2000 μ J pump energy.

⁴⁾ Maximum output power of 1 W.

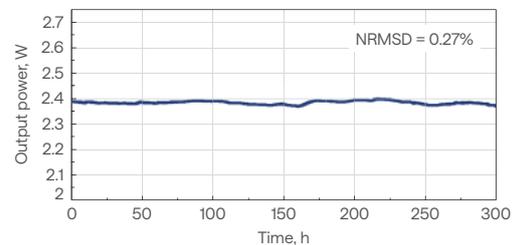
⁵⁾ Maximum output power of 150 mW.



PHAROS with a harmonic generator Pulse energy vs repetition rate



3H output power stability



4H output power stability

