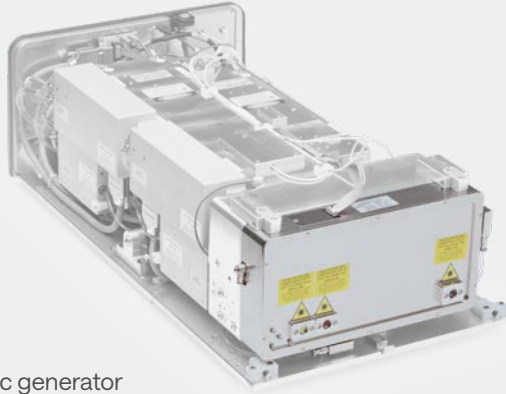


Automated Harmonic Generators



PHAROS with a harmonic generator

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

Automated harmonic selection

Industrial-grade design

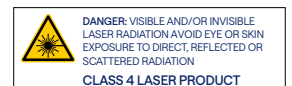
Specifications

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	20 – 4000 μ J	50 – 4000 μ J	20 – 4000 μ J	200 – 1000 μ J
Pump pulse duration	100 – 500 fs			
Conversion efficiency	> 50% (2H)	> 50% (2H) > 25% (3H)	> 50% (2H) > 10% (4H) ²⁾	> 10% (4H) ²⁾ > 5% (5H) ³⁾
Beam quality, M ² , typical values	\leq 400 μ J pump	< 1.15 (2H)	< 1.15 (2H) < 1.2 (3H)	n/a
	> 400 μ J pump	< 1.2 (2H)	< 1.2 (2H) < 1.3 (3H)	

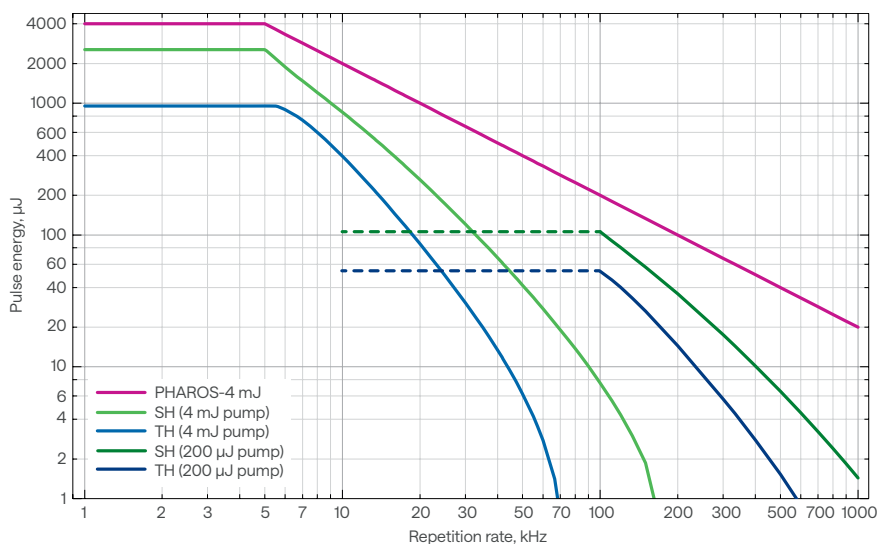
¹⁾ Depends on pump laser model.

³⁾ Maximum output power of 150 mW.

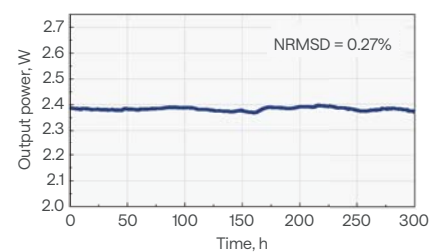
²⁾ Maximum output power of 2 W at 20 – 1000 μ J pump
or 1 W at 1000 – 4000 μ J pump.



PHAROS with HG pulse energy vs repetition rate



3H output power stability



4H output power stability

