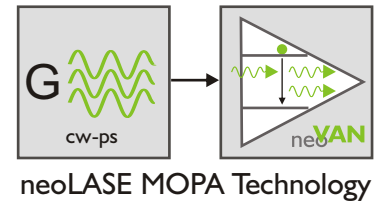


OEM MOPA Systems



neoMOS
OEM

Compact and Powerful

The OEM neoMOS series allow customers to combine the reliability and low maintenance of the neoVAN solid-state amplifiers with fiber coupled seed oscillators. Customized combinations are integrated into ultra-compact laser heads enabling easy system integration. High stability and long lifetime are provided by the neoLASE amplifier design for 24/7 industrial use.

No Matter What!

neoLASE developed a customized MOPA solution with integrated pump diodes specially designed for OEM customers. The module type technology allows self service and therefore dramatically increases system up time and duty cycle. The platform allows new system integration possibilities for short pulse laser applications.

neoMOS OEM MOPA-Systems

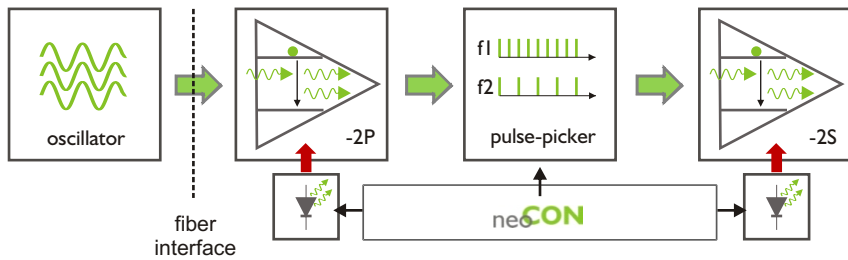
Key features

Output power	5 to 50 W
Pulse duration	1 ns - 5 ps
Pulse energy	up to 1 mJ
Mode of operation	single shot to MHz repetition rates
Beam quality	TEM _{0,0} / M ² < 1.3

Advantages

- Customized pulse duration and output power
- Ultra-compact laser head design
- Proven long term stability and industrial reliability

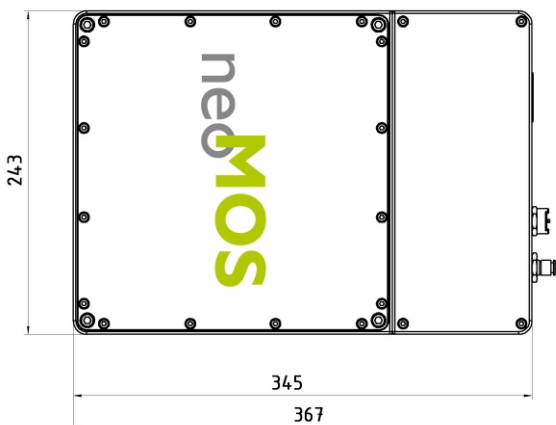
System Configuration



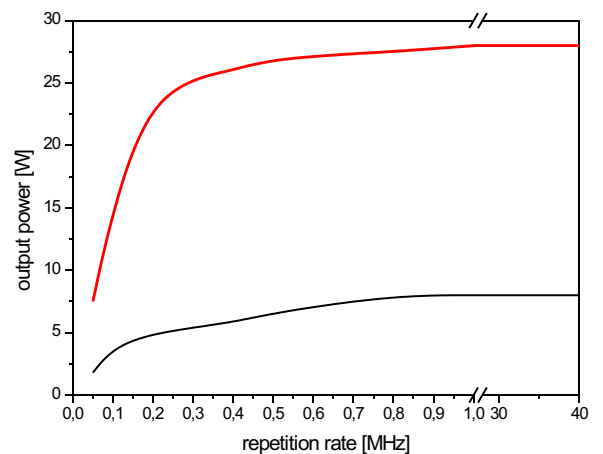
The shown parameters are based on a standard picosecond system combination, other parameters can be offered on request or specified by the used seed laser system.

Seed Laser	Mode-locked Fiber Oscillator
Pulse duration	< 10 ps (depending on seed laser)
Average power	7 / 15 / 25 W / >50W with additional amplifier module
Repetition rate	Single shot to 40 MHz (depending on seed laser)
Max. pulse energy	250 μ J @ 1064 nm (higher energy on request)
Beam quality	TEM _{0,0} M ² < 1.3 / >85 % circularity
Power noise	< 1 % RMS
Polarization ratio	> 100:1
Warm-up time	< 30 min.
Laser controller	19" Rackmount 3U height
Cooling	Water cooled

Dimensions



Typical Output Power



Visit www.neolase.com or email info@neolase.com for further information.

- Notes:
1. Due to neolase continuous product improvement, all specifications are subject to change without notice.
 2. Laser light emitted from this system is invisible and will be harmful to the human eye. Proper laser safety eyewear must be worn during operation.

