## **OPO Systems**

 ${f N}$ ew OPO systems combine high energy output, extremely wide tuning range with excep-

tionally easy maintenance and increased reliability. These OPO systems are developed taking into consideration the end user's demands. They are highly reliable and easy to operate unlike the similar devices already existing in the market. The main advantage of the OPO LP series is extremely low operating pump power densities. Thanks to the original optical scheme the specified parameters are obtained even at low pump intensities and as a result neither crystals nor other optics can be



damaged. This feature combined with precise optics mounts and dust protective housing insures perfect reliability and long-term output stability.

## Spesifications

- Depends on output wavelength; specified for 10 nsec pump pulse
- 2) At 500 nm
- 3) At 850 nm

## **Features**

- High efficiency
- UV SHG options
- Compatibility with MM pump lasers
- 210...2500 nm operation range
- Custom solutions up to 20 μm
- PC control option
- Wavelength display option
- Easy to use and low maintenance

MODEL	LP601	LP603	LP604
Non-linear crystal	ВВО		
Tuning range, nm signal + idler second harmonic	4102500 —	4102500 210420	6802500 —
Max total conversion efficiency 1)	40% 2)	35% 2)	40% 3)
Linewidth <sup>1)</sup> , cm <sup>-1</sup>	10100	46	68
Dimensions, mm		255 x 155 x 70	

Pump laser requirements				
Laser type	Nd:YAG			
Wavelength, nm	355	355	532	
Max pump energy, mJ	100	100	150	
Operating pump intensity, MW/cm²	60	60	80	
Pulse width, nsec	412			
Beam quality	multimode homogeneous spatial beam profile			
Beam divergence	less than 1 mrad			

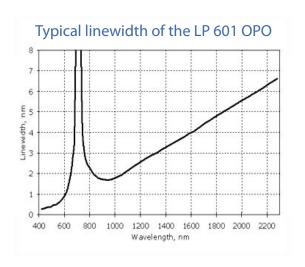
I he OPO LP series optical design provides high-efficiency output even if it is pumped by standard multimode Nd:YAG lasers. The customer does not have to buy or use complex and expensive TEMoo or single-frequency pump lasers. The maintenance expenses are therefore reduced and the OPO series is attractive for every user. Besides the OPO supercompactness saves space at your optical table and allows to integrate it easily into any available laser system.

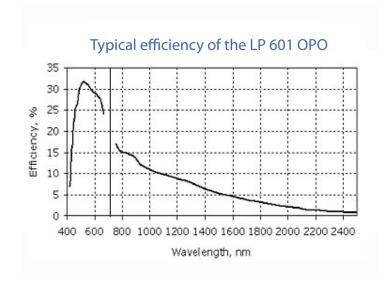


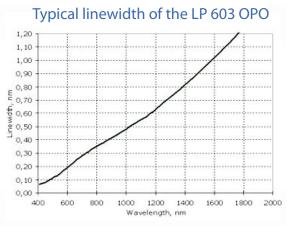


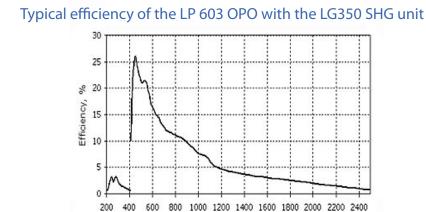
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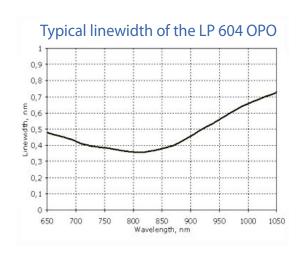
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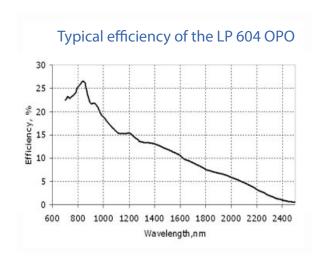




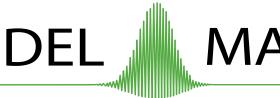








Wavelength, nm



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