

**Vento 40W 1064nm
MOPA sub-ns laser**

Spec. #: VN21703



FEATURES

- _ 1064 nm
- _ > 40 W
- _ down to 500 ps
- _ up to 200 kHz
- _ Water Cooled
- _ All solid state design
- _ Rugged single unit

Technical Specifications	Typical	
Output Wavelength	1064	nm
Q-Switch Repetition Rate	50 – 200 (Available ranges 50 - 120 and 80 - 200)	kHz
Average Power	> 40 (*)	W
Pulse Width	500 – 1500 (*)	ps
Beam Diameter (1/e ²)	0.9 ± 0.2 (collimated)	mm
Beam Quality (M ²)	< 2	
Polarization	Linear 100:1	
Pulse to Pulse Energy Stability (rms)	< 5	%
Power supply input	24 - 28 V DC	
Pulse frequency control input	0 – 5 V (TTL)	
Cooling	Liquid	
Laser unit size	32 x 25 x 15	cm ³
Weight	< 16	kg
Operating temperature (fluid)	20 +/- 2	°C

(*): for more details on the expected performances as a function of the repetition rate, please refer to the curves on the next page.

Options Available:	Applications:
<ul style="list-style-type: none"> - Beam Expanding and Collimating optics - Red aiming beam - Circular Polarization - Extended operating temperature range - Customized design and manufacturing for airborne applications 	<ul style="list-style-type: none"> - Ablation / Micromachining of thin films - LIDAR - LIBS - Specialty Scribing / Material processing - Glass machining



All information included in this document are subject to change without notice.

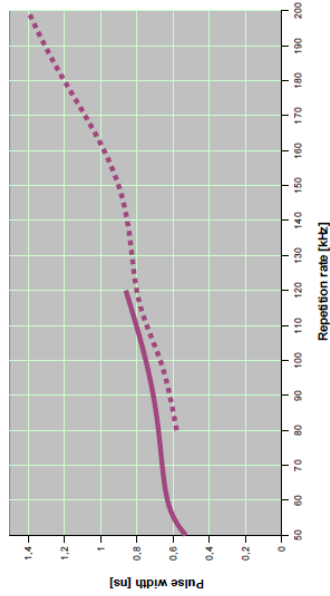
Updated data sheets can be provided on request.

For further details, please contact your local **Bright Solutions** sales representative or visit our website at www.brightsolutions.it

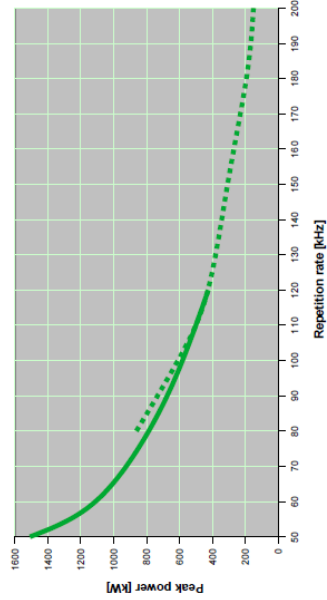
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Vento 40W 1064nm – Performance Curves – Preliminary

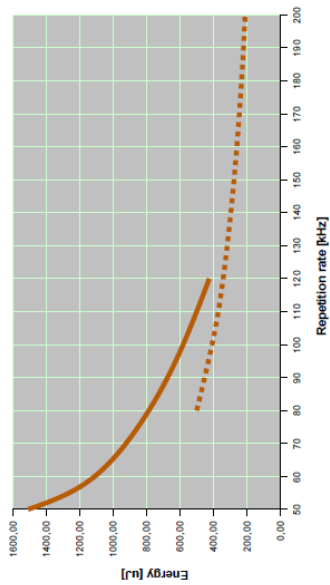
Vento 40W 1064nm: Pulse Width



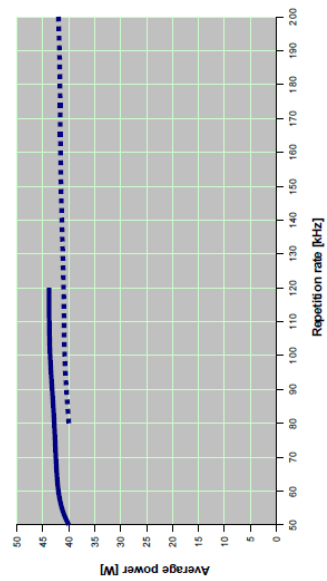
Vento 40W 1064nm: Peak Power



Vento 40W 1064nm: Pulse Energy



Vento 40W 1064nm: Average Power



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