

VGEN-QS Fiber Laser

UNIQUE COMBINATION OF HIGH PULSE ENERGY AND EXCELLENT BEAM QUALITY

The VGEN-QS Advantage

- Up to 100 W average output power
- High pulse energy: Up to 1.5 mJ
- Excellent beam quality: $M^2 < 1.3$
- Up to 15 kW peak power
- Optional output collimators for variety of output beam diameters
- Compatible with industry standard interfaces (RS-232 and TTL)
- Forced air for efficient system cooling (for all models)

Spectra-Physics' VGEN-QS lasers are pulsed, Ytterbium fiber lasers in a unique Q-switched configuration (patent pending). Incorporating leading edge technology, the VGEN-QS series provides top performance in a wide range of precision-intensive industrial applications such as micromachining, fine processing, marking, engraving, scribing and more. The VGEN-QS-HE (high energy) lasers offer very high pulse energy and are ideal for metal processing applications such as drilling and deep engraving.

With low weight and small size, the VGEN-QS series is easily deployed. Housed in a robust assembly that meets industrial standards and fitted with a metal armored fiber cable, VGEN-QS lasers deliver a high quality, near diffraction-limited output beam. The VGEN-QS's solid construction is maintenance free and reliable, ensuring long-life operation at low operational cost.

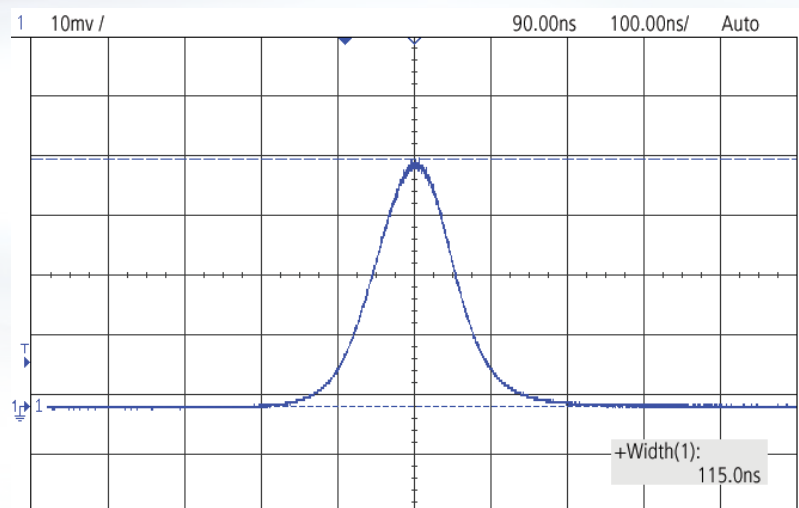
The VGEN family of products includes pulsed Ytterbium, Thulium, Erbium, Green and UV fiber-lasers for such applications as micromachining, fine processing, marking and LIDAR.



Applications

- Marking and deep engraving
- Materials processing
- Micromachining, fine processing and fine drilling
- Scribing
- Thin film cutting

Symmetrical Pulse Shape¹



1. Typically measured performance; not a guaranteed or warranted specification.

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Specifications¹

	VGEN-QS-20	VGEN-QS-30	VGEN-QS-HE-30	VGEN-QS-HE-50	VGEN-QS-HE-75	VGEN-QS-HE-100
Operational Mode	Pulsed					
Wavelength	1060 - 1080 nm					
Average Output Power	20 W	30 W		50 W	75 W	100 W
Repetition Rate (Tunable)	20 - 100 kHz	30 - 100 kHz	20-100 kHz		20-140 kHz	
Pulse Width	125 +/-25 ns					
Pulse Energy (Max)	1000 µJ			1500 µJ		
Peak Power (Max)	10 kW			15 kW		
General Characteristics						
Operational Voltage	12, 24VDC Optional			24 VDC	36 VDC	48 VDC
Operating Temperature	5 - 40 °C					
Dimensions	95 x 195 x 282 mm					120x195x282 mm
Weight	5.9 kg					7.9 kg
Wall-Plug Efficiency	> 20					
Fiber Length	300 cm (other options available)					
Output Fiber Collimator	7.5 mm +/-1.5mm diameter (other options available)					
Output Beam Parameters	M ² < 1.3					

1. Due to our continuous improvement, all specifications are subject to change without notice.



About Spectra-Physics Tel Aviv

Spectra-Physics Tel Aviv develops, manufactures and markets high quality innovative laser systems for a wide range of industrial applications. The company's laser systems are the product of extensive experience and the cutting-edge know-how that Spectra-Physics Tel Aviv's professional team has developed over the years.

In the industrial field, the company develops and manufactures pulsed Ytterbium, Thulium, Erbium, Green and UV fiber-lasers for such applications as micromachining, fine processing and marking. Spectra-Physics Tel Aviv's short pulse versions are also implemented in LIDAR and range-finding.



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