

VGEN-ISP Fiber Lasers

EXCEPTIONAL COMBINATION OF HIGH PEAK POWER, EXCELLENT BEAM QUALITY AND TUNABLE PARAMETERS

The VGEN-ISP Advantage

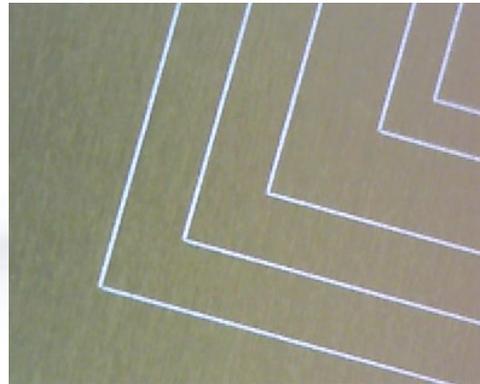
- Up to 50 W average output power
- High pulse energy: Up to 1.3 mJ
- Excellent beam quality: $M^2 < 1.3$
- Up to 40 kW peak power
- 2–300 ns tunable pulse width
- 35–500 kHz (tunable) repetition rate
- Optional output collimators for variety of output beam diameters
- Pulse shape capabilities are available

Spectra Physics Tel-Aviv's VGEN-ISP lasers are short-pulse, Ytterbium fiber lasers in MOPA configuration. Incorporating leading edge technology, the VGEN-ISP series provides top performance in a wide range of precision-intensive industrial applications such as micro-machining, fine processing, marking, scribing and more. The VGEN-ISP's offers high beam quality, very high peak power and high pulse energy, VGEN-ISP's lasers are competitively priced yet offer the full range of specifications to meet a wide range of applications.

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



Marking and Micromachining Application



Applications

- Fine marking
- Material's fine processing
- Micro-machining
- Scribing and deep engraving
- Thin film cutting
- Solar cell and Silicon scribing and processing

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Specifications¹

	VGEN-ISP-20	VGEN-ISP-1-20	VGEN-ISP-1-40-30	VGEN-ISP-1-40-50
Operational Mode	Pulsed			
Wavelength	1060 - 1080 nm			
Average Output Power	20 W		30 W	50 W
Repetition Rate (Tunable)	35 - 500 kHz			
Pulse Width	5 - 100 ns	2 - 100 ns		2 - 300 ns
Pulse Energy (Max)	450 µJ	500 µJ	600 µJ	1300 µJ
Peak Power (Max)	15 kW	20 kW	40 kW	40 kW
General Characteristics				
Operational Voltage	12, 24 VDC Optional			24 VDC
Operating Temperature	5 - 40 °C			
Dimensions	95 x 195 x 282 mm			
Weight	5.9 Kg			
Wall-Plug Efficiency	> 20 %			
Fiber Length	300 cm (other options available)		200 cm	
Output Fiber Collimator	7.5 +/-1mm (4, 6, 7.5, 9, 11)			
Output Beam Parameters	M ² <1.3			<1.5

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.



www.spectra-physics.com

3635 Peterson Way, Santa Clara, CA 95054, USA
PHONE: 1-800-775-5273 1-408-980-4300 **FAX:** 1-408-980-6921 **EMAIL:** sales@spectra-physics.com

Belgium	+32-(0)800-11 257	belgium@newport.com	Korea	+82-31-8069-2401	korea@spectra-physics.com
China	+86-10-6267-0065	info@spectra-physics.com.cn	Netherlands	+31-(0)30 6592111	netherlands@newport.com
France	+33-(0)1-60-91-68-68	france@newport.com	Singapore	+65-6664-0040	sales.sg@newport.com
Germany / Austria / Switzerland	+49-(0)6151-708-0	germany@newport.com	Taiwan	+886 -(0)2-2508-4977	sales@newport.com.tw
Japan	+81-3-3794-5511	spectra-physics@splasers.co.jp	United Kingdom	+44-1235-432-710	uk@newport.com