



L1-SC-Y1070-60k

High-Power Ytterbium Fiber Lasers

New



Applications

- ▶ 2D/3D metal cutting
- ▶ Processing of aluminum, copper and other highly reflective materials
- ▶ Welding
- ▶ Drilling
- ▶ Cladding
- ▶ Brazing
- ▶ Heat treatment



Key Features

- ▶ Efficiency >40%
- ▶ High beam quality
- ▶ Delivery fiber core diameter: 100 to 600 μm
- ▶ Optional additional interfaces: EtherCut, ProfiNet, etc.
- ▶ Multi-module design for fast repair
- ▶ Optional optical coupler installation
- ▶ Maintenance-free
- ▶ Output power up to 60 kW

Output power up to 60 kW



The flagship L1-SC-Y1070-60k fiber laser series is available in various configurations with output power up to 60 kW. Its modular design and remote monitoring system enable fast source servicing, while the sealed industrial enclosure with an integrated dehumidifier and additional power reserve ensure years of operation with stable output parameters and no maintenance required. Control is provided via digital and analog interfaces, with proprietary LaserNet VPG software. Additional industrial interfaces such as EtherCut, ProfiNet, DeviceNet, etc. can also be added. The back-reflection protection system enables safe processing of highly reflective materials such as copper, aluminum, stainless steel, and others. YLS series lasers are an ideal solution for high-productivity 24/7 laser processing.



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Optical Specifications		20k	30k	40k	60k
	Wavelength, nm	1070 ± 5			
	Operating mode	Continuous Wave (CW) / Modulated			
	Modulation frequency, kHz	0—5			
	Maximum output power, kW	20	30	40	60
	Output power adjustment range, %	10—100			
	Power stability, %	±1			
	Delivery fiber core diameter*, μm	100			150
	Delivery fiber beam quality (BPP), mm × mrad	4			<7
*The delivery fiber is terminated with an HLC (QBH-type) or LCA (QD-type) connector and is available in standard lengths up to 30 m. Non-standard connectors and fiber lengths are available. Larger core diameters are available upon request.					

Technical Specifications					
	Weight, kg	500	750	950	1500
	Cooling	Water			
	Power supply, V AC, 3-phase	3-phase, 50/60 Hz, 400-480 V			
	Efficiency, %	>45			

VPG LaserONE offers peripheral beam-delivery equipment, including delivery fibers, optical couplers, 2D cutting heads rated for up to 60 kW, welding heads with an optional beam oscillation device (wobbler), and powder and wire feeding nozzles. This equipment can be purchased separately or together with the laser.

Please contact your VPG LaserONE sales representative to discuss these options. The specified cabinet dimensions and weight are typical for models equipped only with a delivery fiber. Integration of accessories for process fibers will increase the weight and may increase the cabinet height. YLS systems are available with a wide range of fiber core diameters and fiber lengths, as well as multi-channel beam switches, allowing the laser to be used simultaneously in different technological processes.

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GLOBAL LEADER IN THE LASER INDUSTRY

VPG LaserONE is a Russian company founded by the outstanding Soviet scientist Valentin Pavlovich Gapontsev, founder of the international science and technology corporation.

VPG LaserONE develops and serially produces high-efficiency fibre lasers and amplifiers, optical components, assemblies, modules, instruments, subsystems and systems for:

- Industrial laser cutting, welding, cladding, alloying, heat treatment, marking and cleaning systems.
- Scientific research.
- Fibre-optic, atmospheric and satellite optical communications, cable television.
- Surgery and biomedicine.
- Optical ranging and remote monitoring of industrial facilities and the atmosphere.
- Measurement and control systems, sensors.

In order to introduce innovative laser technologies into production, VPG LaserONE has for many years worked closely with leading domestic machine-building, metallurgical, railway and motor transport enterprises and supplies its customers with more than 600 types of ultra-high-technology laser equipment. Many devices and systems have no equivalents on the world high-tech market. All key components of fibre laser technology are manufactured in-house, which delivers:

- Fast product development.
- Efficient production methods.
- The industry's best product delivery times.
- More advanced and higher-quality solutions.
- The highest wall-plug efficiency, which reduces overall energy consumption and costs.



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1992

Foundation date



1,500+

employees



500+

R&D
specialists



>60 000 m²

facilities



100+

patents



90%

component
localization