



# L1-SQ-Y1070-1,5-15k

## Quasi-CW fiber lasers

New!



### Applications

- ▶ 2D and 3D cutting of various materials
- ▶ Processing of copper, brass and aluminium
- ▶ Welding
- ▶ Surface cleaning
- ▶ Cutting
- ▶ Drilling



### Distinctive features

- ▶ Output power in CW mode 1.5 kW
- ▶ Peak power 15 kW
- ▶ Pulse duration 0.2–10 ms
- ▶ Output power modulation frequency 2 kHz
- ▶ No engineering service required
- ▶ High cost efficiency
- ▶ High reliability
- ▶ Compact design

VPG Laserone has expanded its QCW quasi-continuous-wave fiber laser range with a new model, L1-SQ-Y1070-1,5-15k. A peak power of 15 kW, pulse durations from 0.2 ms and a maximum pulse energy of 150 J are ideal for welding, drilling and cutting materials in applications where productivity and processing accuracy matter equally.

QCW fibre lasers are more cost-effective than classic YAG lasers thanks to a wall-plug efficiency above 30%; in addition, they require no engineering maintenance. The laser is built in a compact multi-module housing. Combined with an optimal cost per watt of peak laser power, QCW lasers are an excellent replacement for lamp-pumped radiation source



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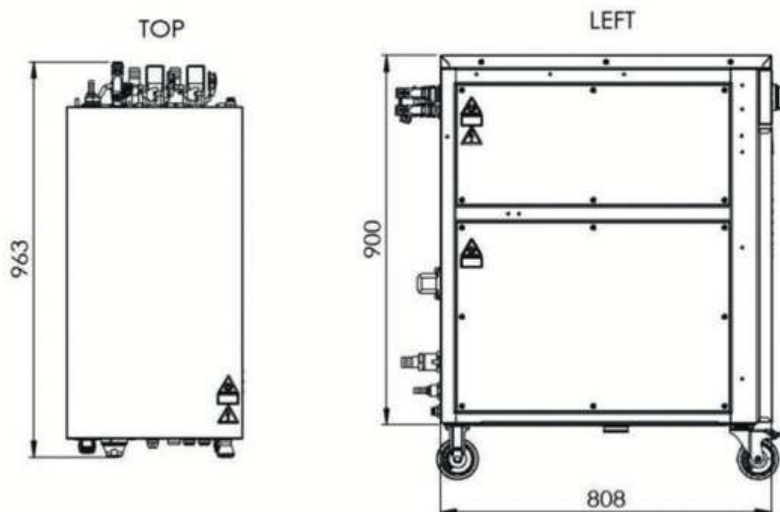
## Quasi-CW fiber lasers

### Optical specifications

|                              |                                          |
|------------------------------|------------------------------------------|
| Wavelength, nm               | 1070                                     |
| Operating mode               | Continuous / Quasi-continuous            |
| Pulse repetition rate, kHz   | 2                                        |
| Average output power, W      | 1500                                     |
| Output power tuning range, % | 10 - 100                                 |
| Peak power, W                | 15000                                    |
| Pulse energy, J              | 150                                      |
| Pulse duration, ms           | 0.05 - 50**                              |
| Output power instability, %  | ±2                                       |
| Beam quality BPP, mm x mrad  | 8.4 (200 .m fiber)<br>4.2 (100 .m fiber) |

### Technical specifications

|                        |                                      |
|------------------------|--------------------------------------|
| Cabinet dimensions, mm | 430x808x900                          |
| Weight, kg             | 240                                  |
| Cooling                | Water                                |
| Power supply, V        | 400-480 V, 3-phase + earth, 50-60 Hz |
| Power consumption, kW  | < 5,6                                |



+7 (496) 255-74-46  
mail@vpglaserone.ru  
[vpglaserone.ru](http://vpglaserone.ru)

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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.



## LASERNEXT



+91 8939521000



WWW.LASERNEXT.IN



SATISH.A@LASERNEXT.IN



KAPITALEASE SOLUTIONS, NEXUS 3.0  
SITE 31/26, BOMMASANDRA INDUSTRIAL AREA,  
4<sup>TH</sup> PHASE, JIGANI, BENGALURU, KA 560105, INDIA



## 1992

Foundation date



## 1,500+

employees



## 500+

R&D  
specialists



## >60 000 m<sup>2</sup>

facilities



## 100+

patents



## 90%

component  
localization