

New Products

High-power Pulsed Fiber Laser FLP-G series

Pulsed fiber lasers have a wide range of applications in surface micromachining including marking and scribing. The FLP-G series of next-generation pulsed fiber lasers, the successor of the FLP series, generates an average output power of up to 75 W with excellent beam quality and pulse shape, opening up new applications of pulsed fiber lasers. Reduced both in size and weight, the FLP-G series offers laser machines/systems much greater flexibility in assembly.

Features

1. High beam quality
 - Succession of excellent beam quality and pulse shape, which are well received in the FLP series, and achieved up to 75W power as well.
2. High power
 - Increase in the maximum power up to 75 W in the FLP-G series while the maximum power of the FLP series was 50 W by contrast.,
 - Expansion of applications not only for metal marking, which is a popular application of pulsed lasers, but also for other materials processing or processing methods,
3. Downsizing
 - Achievement of approximately a half in volume and less than a half in weight compared with those of the FLP series.
4. Interface
 - Increase of interfaces by employing a USB port in addition to previous analog, logics and RS232C interfaces.

Table 1. Typical Specification.

Characteristics	FLP-G75S
Average output power	75 W
Mode of operation	pulsed (Q-switch)
Peak wavelength	1080–1090 nm
Pulse width	240±20 nsec @ 70 kHz
Pulse energy	1.1 mJ
Beam quality M ²	≤1.7
Dimensions	220×240×140 (mm)
Weight	7.5 kg approx.
Control Interface	D-SUB, RS232C, USB



Fig. 1. FLP-G75S appearance.

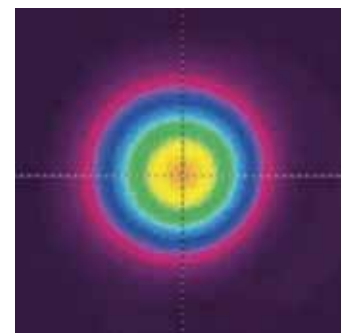


Fig. 2. Beam shape.

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