GW LASER TECH™



2μm QCW Fiber Laser

TLPS-50/500

2μm QCW fiber laser is a kind of laser using thulium doped rare earth element as the gain medium. Many non-metallic materials such as plastic, carbon fiber, wood fiber and paper have high absorption rate at 2μm band, so 2μm laser can be used for processing non-metallic materials.

Advantages

- The average trouble-free working time exceeds 100,000 hours;
- All fiber transmission, can use standard robot arm flexible processing, three-dimensional plastic cutting;
- Eye safe : between 1400nm and 2000nm;
- Electro-optical conversion efficiency >25%.

Applications

It can be used for plastic welding and other non-metallic applications, and is widely used in biological tissue ablation, lithotripsy, prostate hyperplasia surgery and other medical fields.

The professional performance laser series of GW is aimed at customers who have the pursuit of product performance indicators, the replacement of imported products or the product functionality requirements. Product design to the first-line brand, with better product performance , perfect functions, bigger design redundancy, to provide customers with more value-added benefit.

- All optical fiber structure design, maintenance free
- Excellent beam quality and performance
- The output core diameter can be customized to meet multiple application requirements

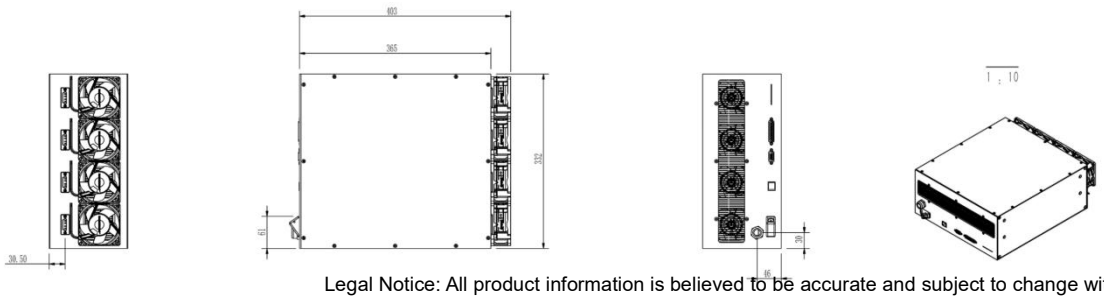
High EO conversion efficiency	Full fiber structure, good stability	Single mode $M^2 \leq 1.3$	Edit the pulse mode freely

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Product specification parameter	TLPS-50/500
Average Power（watt）	50
Peak Power（watt）	500
Operating Mode	CW/QCW
Pulse Width Modulation Range（ms）	0.02-100
Max. Modulation Frequency（kHz）	2.5
Pulse Energy（J）	≤7
Point Laser	Wavelength：520nm；Power < 3mW
Output Power Range (%)	10-100
Output Laser Wavelength	1940±3
Beam Quality	≤1.3@25μm
Connector Type	QCS/SMA905
Delivery Fiber Core Diameter (typical configuration, optional)	25um
Cooling Method	Air-cooling
Ambient Temperature Range (℃)	10-35
Input Voltage	DC66-68V
Dimension (mm)	332 x 403 x 150 (L×W×H)

Unit: mm



Legal Notice: All product information is believed to be accurate and subject to change without notice.

Legal statement:

GW smart fiber laser products are designed in strict accordance with safety regulations. All production is in accordance with international standards and regulations currently in force in the country. Each GW laser has a warning sign as shown in the figure.



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