

QYL 1500W~3000W Single-mode QCW Fiber Laser

PRODUCT DESCRIPTION

CINA LASER QYL series single-mode quasi continuous wave fiber lasers are ideal for applications requiring high peak power and small focal spot in pulsed operation mode, and a variety of microwelding and microdrilling applications.

The single-mode QCW Series fiber lasers are offered as both end user friendly rack units and OEM modules for system integrators. Water-cooling lasers are substantially more cost-effective than lamp-pumped YAG lasers due to wall-plug efficiencies >30% and maintenance-free operation.

CINA LASER, which is based on Internet technology, established a scientific after-sales service system. Each device has a unique identity code (the internal storage of original technology and material information). Can achieve remote online real-time monitoring; can provide users with equipment fault early warning and efficient technical support and good after-sales service.

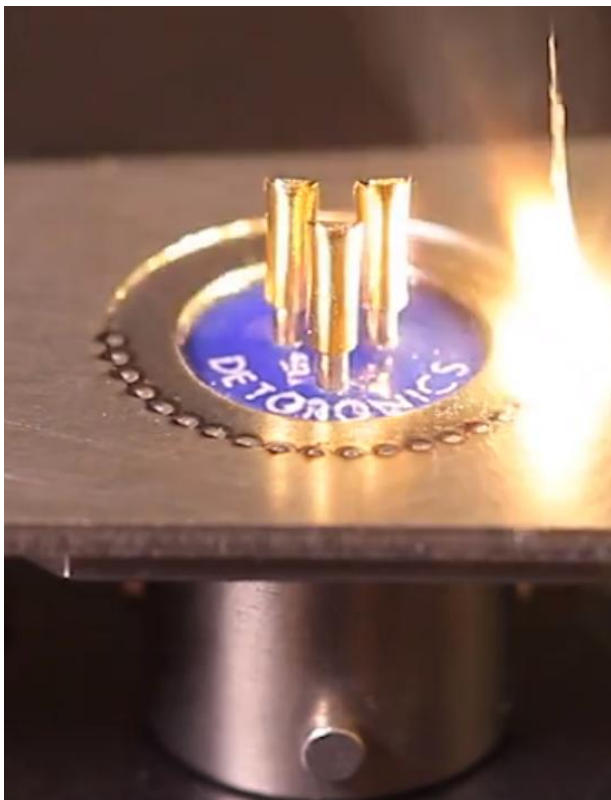


PRODUCT FEATURE

- ▶ Ideal Replacement for Lamp Pumped YAG Lasers
- ▶ Perfect Beam Quality
- ▶ Outstanding Pulse Power/Energy Stability
- ▶ Water-cooling Rack Units or OEM Modules
- ▶ Highly Efficient >30% Wall-plug Efficiency

MAIN APPLICATION

- ▶ Spot & Seam Welding of Various Precision Welds
- ▶ Microkeyhole and Conduction
- ▶ Cutting of Sapphire, Ceramics and Silicon
- ▶ Microdrilling of Metals and Non-metals
- ▶ Batteries, Medical Devices, Electronic Components



TECHNIQUE INDEX

| Parameter | | | Index | | | Supplement |
|-------------------------------|------------------------------|------|--------------------------|--------------|--------------------|---------------------|
| | | | Min. | Typ. | Max. | |
| Optic Feature | Max. Power QCW mode | W | | 1500 | | 150/1500 |
| | | | | 2000 | | 200/2000 |
| | | | | 3000 | | 300/3000 |
| | Max. Power CW mode | W | | 150 | | 150/1500 |
| | | | | 200 | | 200/2000 |
| | | | | 300 | | 300/3000 |
| | Maximum Pulse Energy | J | | 15 | | 150/1500 |
| | | | | 20 | | 200/2000 |
| | | | | 30 | | 300/3000 |
| | Power Tunability | % | 10 | | 100 | |
| | Modulation frequency. | KHz | 1 | | 50 | |
| | Pulse Duration | Ms | 0.1 | | 50 | |
| | Duty Cycle Range | % | 0 | | 50 | |
| Central wavelength | nm | 1070 | 1080 | 1090 | 100% continuous | |
| Optical Efficiency | % | | 80 | | 10~100% Linear Fit | |
| Wall-plug Efficiency | % | | 35 | | 10~100% Linear Fit | |
| Spectral bandwidth (3dB) | nm | | 3 | | 100% continuous | |
| Electrical cooling Feature | Short-Term Stability | % | | 3 | | 100% continuous >1h |
| | Beam Quality M2 | | | 25/400μm=1.3 | | 100% continuous |
| | | | | 50/400μm=2.8 | | |
| | Laser on time | μs | | 50 | 100 | 10% → 90% output |
| | Laser off time | μs | | 50 | 100 | 90% → 10% output |
| | Power of Red Indicator Light | μW | 100 | | | 100% output |
| | Output fiber length | m | | 10 | | |
| | Output fiber bending radius | mm | 200 | | | |
| | Output fiber core diameter | μm | 50(25,100 Customizable) | | | |
| | Output connector | | Standard QCS/QBH (LOC) | | | |
| | Size (L)×(W)×(H) | (mm) | | 451×483×104 | | 150/1500 |
| | | | | 596×483×111 | | 200/2000 |
| | | | | 666×483×111 | | 300/3000 |
| Weight | (kg) | | 38 | | 150/1500 | |
| | | | 43.4 | | 200/2000 | |
| | | | 63 | | 300/3000 | |

DIMENSIONS

