

CYL-8kW ~ 12kW

1.0 μ M Multimode Group Continuous Fiber Laser

PRODUCT DESCRIPTION

CINA LASER's CYL-8k~12k/M 1.0 μ m multimode group continuous fiber laser, adopts latest industry technology and the optimization design, with high electro-optical conversion efficiency, high lifetime, high safety and reliability. The unit with high-quality output beam and strong capability on resisting high-reflective, can be widely used in all kinds of materials of laser cutting, welding, punching, 3D printing and other high-end smart manufacturing.

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.

CINA LASER's products with high quality, high reliability and excellent cost performance, can meet the requirements of the customer diversification and personalized customization. It also with good after-sales service, is the ideal choice for system integrates and equipment manufacturers.

PRODUCT FEATURE

- ▶ High wall plug efficiency, greatly reduce power consumption
- ▶ Strong capability on resisting high-reflective, suitable for different materials processing.
- ▶ Remote real-time monitoring.
- ▶ High lifetime, high safety and reliability.
- ▶ Can achieve personalized customization.
- ▶ Excellent after-sales service system.
- ▶ Excellent cost performance



MAIN APPLICATION

- ▶ Laser cutting.
- ▶ Laser welding.
- ▶ Laser cladding.
- ▶ Laser brazing.
- ▶ Laser thermolizing.

TECHNIQUE INDEX

| Performance | | Min. | Typ. | Max. | Supplement | |
|----------------------------------|------------------------------|-----------------------|-------------------------------------------------------------------|----------|---------------|---------------------------------|
| Optic Feature | Central wavelength | (nm) | 1070 | 1080 | 1090 | |
| | Spectral bandwidth | (nm) | | 5 | 8 | 3dB |
| | Output optical power | (W) | | 8000 | | |
| | | | | 10000 | | |
| | | | | 12000 | | |
| | Power ADJ. range | (%) | 10 | | 100 | |
| | Output power stability | (%) | | -1 | 1 | 100% continuous > 1h |
| | | | | ±2 | ±3 | 100% continuous > 24h |
| Modulation frequency. | (KHz) | | | 5 | 100%output | |
| Glow power | (mW) | 0.3 | | 1.0 | | |
| Output Feature | Output connector | | | QBH | 8000W | |
| | | | | QD or Q+ | 10000W | |
| | | | | QD or Q+ | 12000W | |
| | Beam quality (BPP) | (μm) | 3.5 | | 4.5 | Output fiber core-diameter100um |
| | | | 5 | | 6.5 | Output fiber core-diameter150um |
| | | | 6.5 | | 9 | Output fiber core-diameter200um |
| | Output fiber length | (m) | | 15 | | Customize |
| | Output fiber core-diameter | (μm) | 100 (150 / 200 Customize) | | | |
| Output fiber bending radius | (mm) | 200 | | | | |
| Working mode | | Continuous modulation | | | | |
| Polarization state | | Random | | | Random | |
| Electrical cooling Feature | working voltage | (V) | | 380 | | VAC |
| | Input power | (KW) | | | 22 | CYL-8000 100% output |
| | | | | | 28 | CYL-8000 100% output |
| | | | | | 34 | CYL-12000 100% output |
| | Laser on time | (μs) | | | | |
| | Laser off time | (μs) | | | | |
| Modulation frequency. | | | | | | |
| Cooling method | (L/min) | Water-cooling | | | Circumscribed | |
| General Feature | Working environment temp. | (°C) | 10 | 25 | 40 | |
| | Working environment humidity | (%) | 10 | | 80 | |
| | Storage temp. | (°C) | -10 | 25 | 60 | |
| | Weight | (kg) | | 120 | | |
| | Cooling medium | | distilled water(Above 0 °C)/Ethylene glycol antifreeze(Below 0°C) | | | |

ORDER INFORMATION

C
Y
L
 - / - - /

| C | Continuous wave | Y | YDF 1.0 μm | Optical fiber laser | Output powers | | Output connector | | Output fiber core-diameter | | Fiber length | |
|---|-----------------|---|-----------------------|---------------------|---------------|--------|------------------|-------|----------------------------|---------|--------------|-----------|
| | | | | | 8000 | 8000W | QBH | QBH | 100 | 100/360 | 20 | 20m |
| P | Puls | E | EDF EYDF 1.5 μm | | 10000 | 10000W | QD Q+ | QD Q+ | 150 | 150/360 | 20 | 20m |
| | | | | | 12000 | 12000W | QD Q+ | QD Q+ | 200 | 200/360 | XX | Customize |
| | | | | | | | | | 030 | 30/400 | | |
| | | | | | | | | | 020 | 20/400 | | |
| | | | | | | | | 050 | 50/360 | | | |