

YFL-1500SM Ytterbium Single-mode CW Fiber Laser System



Techwin YFL-1500SM Ytterbium Single-mode CW Fiber Laser System, 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.

Techwin Fiber 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.

Techwin Fiber Laser 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.

Features

- ▶ 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

Applications

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

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Specifications

| Performance | | | Min. | Typ. | Max. | Supplement |
|-----------------------------|------------------------|-------------------|-----------------------------|------|------|-----------------------|
| Optic Feature | Central wavelength | (nm) | 1070 | 1080 | 1090 | |
| | Spectral bandwidth | (nm) | | 3 | 5 | -3dB |
| | Output optical power | (W) | | 1500 | | |
| | Power ADJ. range | (%) | 10 | | 100 | |
| | Output power stability | (%) | | 1 | 1.5 | 100% continuous > 1h |
| | | | | 2 | 3 | 100% continuous > 24h |
| | Beam quality | (M ²) | | | 1.3 | QBH-20/400 |
| | | | | | 2.8 | QBH-50/360 |
| | Modulation frequency. | (KHz) | | | 20 | 100% output |
| Output Feature | Glow power | (mW) | 0.3 | | 1.0 | |
| | Output connector | | | QBH | | Customize |
| | Output fiber | (μm) | | 20 | 100 | |
| | Output fiber length | (m) | | 15 | | Customize |
| | Output fiber bending | (mm) | 200 | | | |
| | Working mode | | Continuous modulation | | | CW/Modulate |
| | Polarization state | | Random | | | Random |
| Electric al cooling Feature | Telecommunication port | | RS232 / AD / Super terminal | | | |
| | Remote | | APP | | | Customize |
| | Power supply | (V) | 340 | 380 | 420 | Three phase five wire |
| | Power consumption | (KW) | | | 4.5 | |
| | Cooling method | | Water-cooling | | | Circumscribed |
| | Coolant temp. | (°C) | 21 | | 25 | |
| | Coolant flow | (L/mi) | | 20 | | |
| General Feature | Working environment | (°C) | 10 | | 40 | |
| | Working environment | (%) | 10 | | 85 | |
| | Storage temp. | (°C) | -10 | | 60 | |
| | Weight | (kg) | | 40 | | |
| | Structure | | Machine cabinet | | | |
| | Size (W) × (L) × (H) | (mm) | 482.6 × 451 × 104 | | | With hook |