



Fiber-Coupled Direct Diode Laser



FEATURES

- Low cost
- Maintenance free operation
- Excellent power stability
- Convenient control interface
- Modulation frequency up to 5kHz
- High wall-plug efficiency
- Outstanding reliability

APPLICATION

- Welding
- Cladding
- Surface treatment
- Li battery manufacture

BWT Laser 1000W DDL (Direct Diode Laser) is designed for precision materials processing. With two optional modes, continuous mode and pulse mode, HAZ (heat affected zone) can be minimized. The system is designed for outstanding reliability and can be operated in harsh industrial application environment.

BWT Laser 1000W DDL are suitable for many applications, such as welding, cladding, Li battery soldering, etc.



Fiber-Coupled Direct Diode Laser

Technical Specification

Optical Character	
Power	1000W
Wavelength	915 / 976nm
Cable Length	10m
Fiber Core (NA)	220 μ m (0.22) * / 330 μ m (0.22)
Beam Delivery	QBH
Guide Beam	Red
Operation Mode	Continuous or Modulated
Polarization	Random
Power Stability (25 °C)	<3% (2h)
Power Adjustment Scope	10%-100%
Max Modulation Frequency	5kHz
Overall size and weights	
Weights	<70Kg
Outline Feature	5U (220 mm), 680mm
Electronic Character	
Voltage	Three Phase, 380 \pm 20V, AC, PE, 50/60Hz
Power Consumption	5.0kW
Control Interface	RS232
Water Cooling Parameters	
Minimum Water Cooling Capacity	5.0 kW
Temperature Settings	25 °C (Laser Module), 30 °C (QBH)
Cooling Tubes Size (External)	Φ 12mm
Cooling Water Flux	>15 L/min
QBH Cooling Water Flux	1.5~2.0L/min

*: Engineering Sample