

# CFLS-4000

CW Fiber laser



## Features & Benefits

- Unique combination of innovative optical fibers and advanced laser technologies guarantee **long-term stability**.
- High reliability – enables continuous cutting operations
- Excellent beam quality
- Outstanding **back-reflection protection** – safe processing of highly reflective materials
- High modulation rate – ensures fast piercing time for efficient metal processing
- **35% wall-plug efficiency** – reduces the overall electrical power consumption
- Industrial-grade quality – durability in harsh manufacturing environments
- Easy-to-use, Plug & Play design
- Maintenance-free
- Remote diagnostic software for fast support
- Water-cooled chiller also available
- 3-year warranty

## Applications

- Laser cutting & welding
- Laser cladding

## Specifications

### Optical

Mode of Operation	CW/Modulated
Polarization	Random
Operating Wavelength (nm)	1080 ± 5
Nominal Output Power (W)	4000
Power Stability (%)	± 1
Output Power Tuning Range (%)	10 - 100
Modulation Frequency (kHz)	50 max.
Output Fiber Core Diameter (µm)	50* / 100
Beam Quality (BPP) (mm x mrad)	< 2.0 for 50 µm < 4.0 for 100 µm

### Electrical

Operating Voltage (VAC)	350 – 430, 3 P
Operating Frequency (Hz)	50 / 60
Power Consumption (W)	12000 max.

### Mechanical

Dimensions (W x D x H) (mm)	1000 x 895 x 1131
Output Fiber Length (m)	20 m for 50 µm 20 m for 100 µm
Output Connector	QBH
Weight (kg)	< 440

### Cooling

Cooling Method	Water-cooled
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### Product Compliance

CE Marking	Available
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\* Other options may be available upon request.  
All specifications are subject to change without notice.

Reference: 100-70-0008.G2  
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