

# CFLS-4000

## CW Fiber laser



## Features & Benefits

- Unique phosphosilicate gain fiber technology – **photodarkening-free performances** 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
- **5-year industry-leading warranty**

## Applications

- Laser cutting
- Laser welding

\* Other options may be available upon request.  
Manufactured under ISO 9001:2015 certified quality system.  
All specifications are subject to change without notice. Reference: 100-70-0008.R2

## 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)	0 - 50
Pulse Rise/Fall Time (µs)	15 max.
Output Fiber Core Diameter (µm)	50 / 100*
Beam Quality (BPP) (mm x mrad)	1.5 - 1.2 for 50 µm ≤ 4.0 for 100 µm

### Electrical

Operating Voltage (VAC)	330 - 430 VAC 3 Phases 5-Wires
Operating Frequency (Hz)	50 / 60
Power Consumption (W)	12000 max.

### Mechanical

Dimensions (W x D x H) (mm)	1098 x 1090 x 1168
Output Fiber Length (m)	20
Output Connector	QBH
Weight (kg)	< 630

### Cooling

Cooling Method	Water Cooled
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