YLM-250/2500-QCW

Single-mode Quasi-CW Ytterbium Fiber Laser

NEW PRODUCT

Applications

- Replacement for Lamp-pumped Lasers
- Spot Welding
- Seam Welding
- Microwelding
- Drilling
- Cutting
- Batteries
- Medical Devices
- Computer Components

Features

- Outstanding Pulse Power/ Energy Stability
- >30% Wall-plug Efficiency
- CW & Pulsed Modes
- Perfect Beam Quality
- Beam Quality Optimized for Applications
- Internal Pulse Generator & Pulse Shaping
- Low Cost High Peak Power
- Compact Rugged Design

IPG's quasi-continuous wave (QCW) fiber lasers are available for requalifying existing lamp-pumped processes at IPG's application facilities and applications labs. QCW fiber lasers are ideal for spot welding, seam welding & drilling in the long pulse operation mode. These air-cooled, compact units are substantially more cost-effective than conventional YAG lasers due to >30% wall-plug efficiencies and maintenance-free operation. Retrofit services, including engineers familiar with system integration, are available to help customers replace older production lasers with energy-efficient fiber lasers from IPG. The QCW Series features 19" rack mounted units and highly cost-effective OEM modules.

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Optical Characteristics

Wavelength, nm	1070 ±5
Mode of Operation	Pulsed/ CW
Modulation Frequency, kHz	0-50
Max. Average Power CW/QCW, W	400/250
Max. Peak Power, W	2500
Max. Pulse Energy, J	25
Pulse Duration[1], ms	0.05-50
Power Tunability, %	10-100
Power Stability[2], %	±0.1
Beam Quality, M^2	1.05

[1] The minimum pulse duration is 10 microseconds upon request
[2] Over 4 hours, T=const

General Characteristics

Module Dimensions (WxDxH), mm	336 x 435 x 148
Weight, kg	<25
Cooling	Air-cooled
Supply Voltage, VDC	48
Power Consumption, W	<1000

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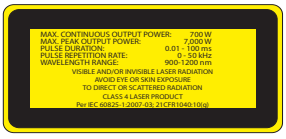

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