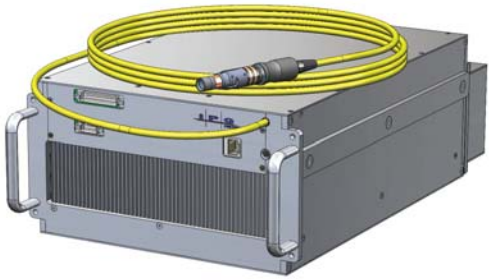
QCW MM
FIBER LASER SERIES

The Power to Transform® using QCW MULTI-MODE YTTERBIUM FIBER LASERS

Features:

- Replacement for Lamp-pumped Lasers
- Outstanding Pulse Power/ Energy Stability
- Energy Efficient: >30% Wall-plug Efficiency
- Low Cost Solution offering High Peak Power
- Versatile Fiber Laser Working in CW & Pulsed Modes
- Beam Quality Optimized for Applications
- Internal Pulse Generator & Pulse Shaping



Typical Applications:

- Spot Welding
- Seam Welding
- Microwelding
- Drilling
- Cutting
- Batteries
- Medical Devices
- Computer

IPG expands its QCW fiber laser series with new higher power models. These modules are two times more powerful and feature a compact size and lower price per Watt. IPG's QCW fiber lasers are ideal for spot welding, drilling and cutting 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 efficiency and maintenance-free operation. The QCW fiber lasers are available for requalifying existing lamp-pumped processes.

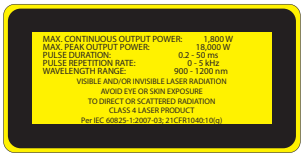
QCW Series
Quasi CW Multi-mode
Ytterbium Fiber Lasers

1.0 Optical Characteristics

	YLM-300/3000-QCW-AC	YLR-300/3000-QCW-AC	YLS-2000/20000-QCW
Mode of Operation	Pulsed / CW		
Polarization State	Random		
Max. Peak Power, W	3000		20,000
Max. Pulse Energy, J	30		200
Pulse Width, ms	0.2-50		
Max. Average Power (Pulsed Mode), W	300		2000
Max. Average Power (CW Mode), W	300		2000
Emission Wavelength, nm	1070		
Output Fiber, µm / BPP, mm x mrad	50 / 2 100 / 5 200 / 10		300 / 15

2.0 General Characteristics

Cooling Method	Forced Air		Water
Dimensions W x D x H, mm	336 x 435 x 148	19" Rack 6U 448 x 502 x 266	1004 x 815 x 558
Weight, kg	25	50	220
Operating Voltage	48 VDC	200-240 VAC, 50/60 Hz	400 V/3P or 460 V/3P, 50/60 Hz
Max. Power Consumption, W	1200	1200	8000



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