QCW SM FIBER LASER SERIES



The Power to Transform[®] using QCW SINGLE-MODE YTTERBIUM FIBER LASERS

Features:

- Replacement for Lamp-pumped Lasers
- Outstanding Pulse Power/ Energy Stability
- Low Cost & Compact Solution offering High Peak Power
- Internal Pulse Generator
- Highly Efficient >30% Wall-plug Efficiency
- Perfect Beam Quality M² <1.05
- Pulse Shaping

Typical Applications:

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

PRISM AW≜RDS WINNER



IPG's quasi continuous wave (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 in part to wall-plug efficiencies >30% & maintenance-free operation. The QCW fiber lasers are available for requalifying in existing lamp-pumped processes at IPG's application facilities. IPG's QCW Series also features a highly cost-effective OEM module. Utilizing the new pump diodes optimized for the QCW 2013 series offers a highly cost-effective solution as it features redesigned control electronics with extended functionality.



QCW Series Quasi CW Single-mode Ytterbium Fiber Lasers

YLM-150/1500-QCW Y

YLR-150/1500-QCW

1.0 Optical Characteristics		
Mode of Operation	Pulsed / CW	
Polarization State	Random	
Max. Peak Power, W	1500	
Max. Pulse Energy, J	15	
Pulse Width, ms	0.2-50	
Max. Average Power (Pulsed Mode), W	150	
Max. Average Power (CW Mode), W	250	
Emission Wavelength, nm	1070	
BPP, mm x mrad	0.37	
Output Fiber Type	Single-mode	

2.0 General Characteristics

10 Ontical Characteristics

Cooling Method	Forced Air	
Dimensions W x D x H, mm	256 x 435 x 148	19" Rack 4U 448 x 500 x 177
Weight, kg	25	30
Operating Voltage	48 VDC	100-240 VAC, 50/60 Hz
Max. Power Pulse Consumption, W CV	600 900	

Multi-mode versions also available- ask IPG for more details

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