



redPOWER® QUBE LT

1kW - 2kW

Power and control for cutting, welding, micro-machining and additive manufacturing.
CW / Modulated Fiber Laser.



Key benefits and features

This versatile Fiber Laser range, covering 1kW to 2kW offers a number of industry leading features in a standard 19" rack format, with integrated power supply making it simple to install into new or existing products.

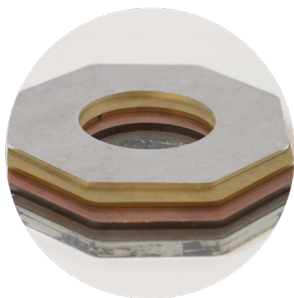
Full feature list

- 1kW to 2kW CW output power.
- Single mode and multi mode fiber beam delivery options.
- Patented back reflection protection.
- PRISMView™ software.
- Serial & digital i/o control interfaces.
- High reliability.
- Low maintenance.

Optimised for...

Easy integration into our customers equipment; industrial Lasers come complete with tailored control & safety features offering cost effective integration route.

These versatile Lasers offer a number of benefits including output power flexibility and a range of beam delivery options, all with patented back reflection protection.



Cutting

Aluminium, Mild Steel,
Brass, Copper &
Stainless Steel



Flat Sheet Cutting

Stainless Steel



3D Printing / Additive Manufacturing

Metal Powders

Benefits

- PIPA-Q fiber termination with industry standard opto-mechanical compatibility
- Integral patented back reflection protection
- Lower energy bills
- High reliability
- 19" Rack mount format
- Low maintenance

Key features

- Single mode and multimode fiber delivery options
- Up to 50kHz Modulation rate

Applications

- Cutting
- Welding
- Additive Manufacturing
- Fine Cutting

Industries

- Electronics
- General Assembly
- Industrial

www.spilasers.com | sales@spilasers.com

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Go to spilasers.com for information on our full suite of Pulsed and CW Fiber Lasers.

Product Selection Parameters

Model	1kW	1.5kW	2kW
Performance Data			
Operating Modes	CW and Modulated		
Output Power Range	10 – 105%		
Long Term Output Power Stability ⁽¹⁾	± 2% peak		
Wavelength (nm)	1075-1080		
Linewidth (nm)	<10		
Polarisation	Un-polarised		
Min. Rise / Fall Time (µs)	<5 / <6		
Max. Modulation Frequency (kHz)	50		
Fiber Optic Beam Delivery			
Single Mode Fiber	M ² 1.1 ± 0.1		M ² 1.1(typ), 1.3(max)
100µm Fiber	4.5mm mrad BPP ⁽²⁾		
Alignment Laser Wavelength (nm)	630-680 (Class 2)		
Electrical			
Voltage (nominal)	200-240V		380-480V (3ph)
Maximum Current Range (A)	19-23	29-32	12-16
Environment / Cooling			
Coolant Temperature (°C)	18-30		18-25
Coolant Flow Rate (litre/min) ⁽³⁾	12	17	28
Coolant Connections	10mm	12mm	
Humidity	5-85% RH, 35°C Max. Dew Point		
Module Dimensions			
Height	4U (178mm)		6U (270mm)
Width	19" rack mount (445mm)		
Depth	680mm	830mm	

Notes

1. Constant Temperature
2. Beam Parameter Product = beam radius x half angle divergence
3. At 25°C Water Temperature

Terms and conditions

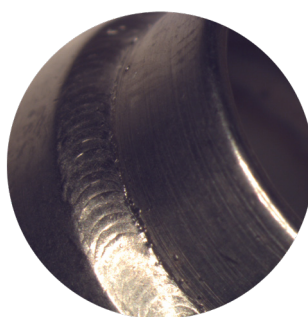
Some specific combinations of product specifications and optional accessory may not be available. These Lasers are designed as units for incorporation or integration into other equipment. All product information is believed to be accurate and subject to change without notice. A complete product specification will be issued on request and also at time of order acknowledgement. The user assumes all risks and liability whatsoever in connection with the use of the product or its application.

Applications



Cutting

Aluminium, Mild Steel,
Copper, Brass &
Stainless Steel



Welding

304 Stainless Steel



3D Printing / Additive
Manufacturing
Metal Powders



Cutting
Mild Steel

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