



redENERGY G4

Pulsed Fiber Laser
Wavelength: 1060nm

20W RM-Z



Benefits

 **Greater flexibility**

Range of pulses for new and improved applications

 **Superior quality**

Industry leading reliability and product warranty

 **Increased productivity**

Higher powers and pulse rates for faster processing

 **Improved profitability**

Low cost of ownership with no service requirements

Applications

- Ablation
- Cleaning
- Drilling
- Engraving
- Marking
- Micro-machining
- Precision cutting
- Scribing
- Solar cell processing
- Thin film patterning
- Thin foil cutting
- Welding

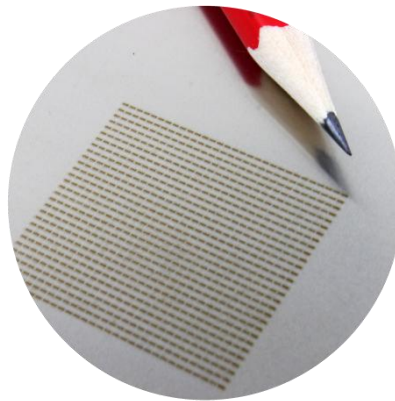
20W RM-Z is ideal for...

Cost effective marking
With pulse duration 26-250ns



- White marking metals
- Non transparent plastics

Cost effective cutting & drilling
With pulse energy >1mJ



- Cutting metal foils up to 0.15mm
- Drilling holes down to 30µm

Cost effective micro-machining
With peak power >10kW



- Engraving metals
- Surface texturing

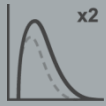
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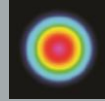
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PulseTune functionality

RM Series

- Models benefit from 2 PulseTune waveforms
- Single shot to 0.5 MHz pulse repetition frequency



Beam quality

Z Type ($M^2 < 1.6$)

- Higher peak power and pulse energy with only minor increase in spot size and good depth of focus

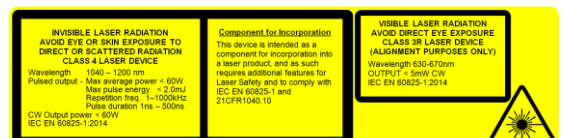
Laser characteristics

Parameter	Unit	SP-020P-A-RM-Z
Central emission wavelength	nm	1059 - 1065
Nominal average output power	W	20
M^2		<1.6
Collimated beam diameter	mm	3 / 5 / 7.5 / 10
PulseTune waveforms		2
Maximum pulse energy	mJ	>1
Maximum peak power	kW	>10
Pulse duration range	ns	26 - 250
Pulse repetition frequency (PRF) range	kHz	1 - 500
CW mode (with modulation)	kHz	NO

System integration details

Parameter	Unit	SP-020P-A-RM-Z
Cooling		Air
Beam delivery cable length	m	3
Laser module dimensions	mm	347 x 201 x 95
Power supply voltage	V DC	24
Power supply requirement	W	250
Operating temperature range	°C	0 to +45
Relative humidity range		5-95% RH (non-condensing)

To learn more about our **redENERGY G4** Fiber Laser products visit our website: www.spilasers.com



Terms and Conditions

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 and its application. These lasers are designed as products for incorporation or integration into other equipment.