



redENERGY G4

Pulsed Fiber Laser **50W RM-Z**
Wavelength: 1060nm



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

50W RM-Z is ideal for...

High speed marking
With PRF up to 0.5MHz



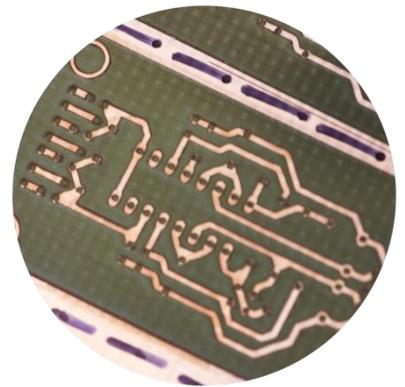
- White marking metals
- Non-transparent plastics

Cost effective cutting & drilling
With pulse energy >1mJ



- Cutting metal foils up to 0.4mm
- Drilling holes down to 40µm

Cost effective engraving
With peak power >10kW



- Engraving metals
- Surface texturing

To Purchase: Call us on +44 (0) 1489 779 696
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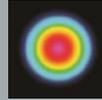
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PulseTune functionality

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-050P-A-RM-Z
Central emission wavelength	nm	1059 - 1065
Nominal average output power	W	50
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-050P-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	300
Operating temperature range	°C	0 to +40
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.