



redENERGY G4

Pulsed Fiber Laser
Wavelength: 1060nm

250W EP-Z Water-cooled



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

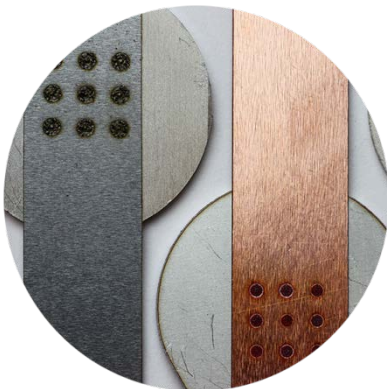
Applications

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

250W EP-Z is ideal for high speed...

Welding

With pulse energy >1.5mJ



- Foils up to 2.0mm
- Dissimilar metals

Cleaning

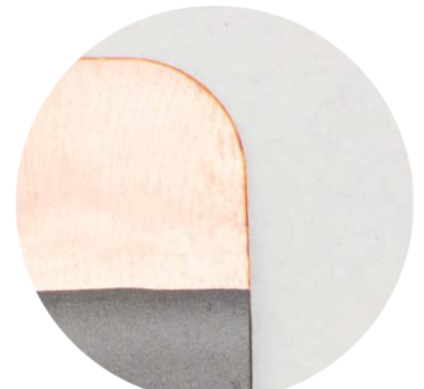
With PRF up to 4MHz



- Thick layer rust removal
- Paint ablation

Cutting & drilling

With peak power >10kW



- Cutting of battery foils
- Drilling holes down to 80µm

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

www.spilasers.com | sales@spilasers.com

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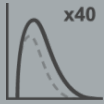


Lasers

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250W EP-Z Water-cooled

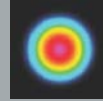
Pulsed Fiber Laser
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PulseTune functionality

EP Series

- 40+ optimised PulseTune waveforms
- Single shot to 4 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-250P-W-EP-Z
Central emission wavelength	nm	1059 - 1065
Nominal average output power	W	250
M^2		<1.6
Collimated beam diameter	mm	10
PulseTune waveforms		42
Maximum pulse energy	mJ	>1.5
Maximum peak power	kW	>10
Pulse duration range	ns	10 - 1400
Pulse repetition frequency (PRF) range	kHz	1 - 4000
CW mode (with modulation)	kHz	No

System integration details

Parameter	Unit	SP-250P-W-EP-Z
Cooling		Water
Beam delivery cable length	m	3
Laser module dimensions	mm	389 x 417 x 82
Power supply voltage	V DC	36
Power supply requirement	W	1150
Operating temperature range	°C	+15 to +35
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.