redENERGY G4

Pulsed Fiber Laser
Wavelength: 1060nm

200W EP-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

200W EP-Z is ideal for…

High speed welding
With pulse energy >1.5mJ

- Foils up to 2.0mm
- Dissimilar metals

High speed cleaning
With PRF up to 4MHz

- Thick layer rust removal
- Paint ablation

High speed cutting & drilling
With peak power >10kW

- Cutting metal foils up to 1.5mm
- Drilling holes down to 80µm

To Purchase: Call us on +44 (0) 1489 779 696
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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-200P-A-EP-Z
Central emission wavelength	nm	1059 - 1065
Nominal average output power	W	200
M^2		<1.6
Collimated beam diameter	mm	10
PulseTune waveforms		45
Maximum pulse energy	mJ	>1.5
Maximum peak power	kW	>10
Pulse duration range	ns	10 - 2000
Pulse repetition frequency (PRF) range	kHz	1 - 4000
CW mode (with modulation)	kHz	No

System integration details

Parameter	Unit	SP-200P-A-EP-Z
Cooling		Air
Beam delivery cable length	m	3
Laser module dimensions	mm	423 x 417 x 133
Power supply voltage	V DC	36
Power supply requirement	W	950
Operating temperature range	°C	+10 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**