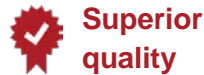




Benefits



Range of pulses for new and improved applications



Industry leading reliability and product warranty



Higher powers and pulse rates for faster processing



Low cost of ownership with no service requirements

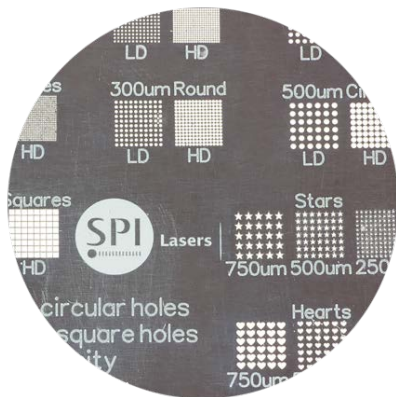
Applications

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

100W EP-S is ideal for...

High quality cutting & drilling

With peak power >7kW



- Cutting metals & semiconductors
- Drilling holes down to 30µm

High speed micro-machining

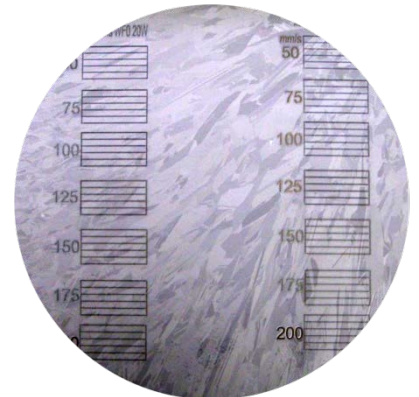
With small spot sizes ($M^2 < 1.3$)



- Cutting & engraving with small features sizes

High speed scribing

With pulse energy >1mJ



- Silicon processing
- Ceramics

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

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SM-S01038_A



redENERGY G4

Pulsed Fiber Laser

Wavelength: 1060nm **100W EP-S**



PulseTune functionality
EP Series

- 40+ PulseTune waveforms
- Single shot to 4 MHz pulse repetition frequency

Beam quality
S Type ($M^2 < 1.3$)

- Generating very fine spot sizes (<20µm possible) with high stability and large depth of focus

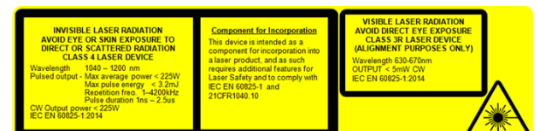
Laser characteristics

Parameter	Unit	SP-100P-A-EP-S
Central emission wavelength	nm	1059 - 1065
Nominal average output power	W	100
M^2		<1.3
Collimated beam diameter	mm	3 / 5 / 7.5 / 10
PulseTune waveforms		47
Maximum pulse energy	mJ	>1
Maximum peak power	kW	>7
Pulse duration range	ns	4 - 2000
Pulse repetition frequency (PRF) range	kHz	1 - 4000
CW mode (with modulation)	kHz	NO

System integration details

Parameter	Unit	SP-100P-A-EP-S
Cooling		Air
Beam delivery cable length	m	2
Laser module dimensions	mm	377 x 249 x 115
Power supply voltage	V DC	24
Power supply requirement	W	530
Operating temperature range	°C	+5 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.