



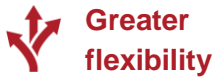
redENERGY G4

Pulsed Fiber Laser
Wavelength: 1060nm

40W HS-H



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

40W HS-H is ideal for...

High quality marking
With pulse duration 10-240ns



- Black marking stainless steel
- Cast iron marking

Cost effective cleaning
With large spot sizes ($M^2 \sim 3$)



- Metal cleaning/polishing
- Thin film removal

Cost effective engraving
With peak power >20kW



- Deep engraving metals
- Reflective metal processing

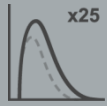
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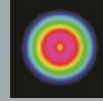
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PulseTune functionality

HS Series

- Up to 25 PulseTune waveforms
- Single shot to 1 MHz pulse repetition frequency



Beam quality

H Type (M^2 2.5 – 3.5)

- Higher pulse energies, peak powers and bigger spots ideal for large area coverage

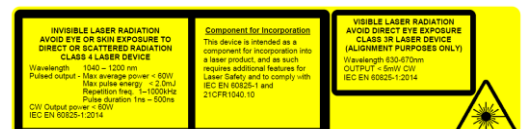
Laser characteristics

Parameter	Unit	SP-040P-A-HS-H
Central emission wavelength	nm	1059 - 1065
Nominal average output power	W	40
M^2		3
Collimated beam diameter	mm	3 / 5 / 7.5 / 10
PulseTune waveforms		24
Maximum pulse energy	mJ	>1.25
Maximum peak power	kW	>20
Pulse duration range	ns	10 - 240
Pulse repetition frequency (PRF) range	kHz	1 - 1000
CW mode (with modulation)	kHz	YES (1 - 100)

System integration details

Parameter	Unit	SP-040P-A-HS-H
Cooling		Air
Beam delivery cable length	m	3 / 5
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.