redENERGY G4
Pulsed Fiber Laser
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

70W EP-Z is ideal for…

- High quality cutting & drilling
  With higher power & pulse energy
- High speed engraving
  With peak power >10kW
- High quality welding
  With pulse energy >1.2mJ

- Cutting metal foils up to 0.8mm
- Drilling holes down to 80µm
- Reflective metal processing
- Engraving metals
- Surface texturing
- Foils up to 0.4mm
- Dissimilar metals

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SM-S00549_B
**Parameter** | **Unit** | **SP-070P-A-EP-Z**
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Central emission wavelength | nm | 1059 - 1065
Nominal average output power | W | 70
M² | | <1.6
Collimated beam diameter | mm | 3 / 5 / 7.5 / 10
PulseTune waveforms | | 48
Maximum pulse energy | mJ | >1.2
Maximum peak power | kW | >10
Pulse duration range | ns | 3 - 2000
Pulse repetition frequency (PRF) range | kHz | 1 - 4000
CW mode (with modulation) | kHz | YES (1 - 100)

**System integration details**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Unit</th>
<th>SP-070P-A-EP-Z</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling</td>
<td></td>
<td>Air</td>
</tr>
<tr>
<td>Beam delivery cable length</td>
<td>m</td>
<td>3 / 5</td>
</tr>
<tr>
<td>Laser module dimensions</td>
<td>mm</td>
<td>377 x 249 x 95</td>
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<tr>
<td>Power supply voltage</td>
<td>V DC</td>
<td>24</td>
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<tr>
<td>Power supply requirement</td>
<td>W</td>
<td>530</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>°C</td>
<td>0 to +40</td>
</tr>
<tr>
<td>Relative humidity range</td>
<td></td>
<td>5-95% RH (non-condensing)</td>
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</tbody>
</table>

To learn more about our redENERGY G4 Fiber Laser products visit our website: [www.spilasers.com](http://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.