

## redENERGY G4

Pulsed Fiber Laser Wavelength: 1060nm

**70W EP-Z** 



#### **Benefits**



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



- Cutting metal foils up to 0.8mm
- Drilling holes down to 80µm
- · Reflective metal processing

High speed engraving
With peak power >10kW



- Engraving metals
- Surface texturing

To Purchase: Call us on +44 (0) 1489 779 696 www.spilasers.com | sales@spilasers.com © SPI Lasers UK Ltd SM-S00549 B High quality welding
With pulse energy >1.2mJ



- Foils up to 0.4mm
- Dissimilar metals



# Lasers redENERGY G4

### **70W EP-Z**

Pulsed Fiber Laser Wavelength: 1060nm





#### **YEAR PulseTune functionality**

**EP Series** 

- Up to 48 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-070P-A-EP-Z
Central emission wavelength	nm	1059 - 1065
Nominal average output power	W	70
$M^2$		<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**

Parameter	Unit	SP-070P-A-EP-Z
Cooling		Air
Beam delivery cable length	m	3/5
Laser module dimensions	mm	377 x 249 x 95
Power supply voltage	V DC	24
Power supply requirement	W	530
Operating temperature range	°C	0 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**