



# Rigel i3200

## 3200W High Power, Diode Pumped, Short Pulse Laser

A 3.2 kW, dual beam, Q-switched, DPSS laser, delivering high average powers over 3 kW and high peak power at 1064 nm, unpolarised. With a well proven rugged head design, state of the art universal control system architecture and simple synchronisation with OEM equipment and process lines this platform ideally suited to high volume industrial applications.

Rigel i200

Rigel i400

Rigel i600

Rigel i800

Rigel i1000

Rigel i1600

**Rigel i3200**

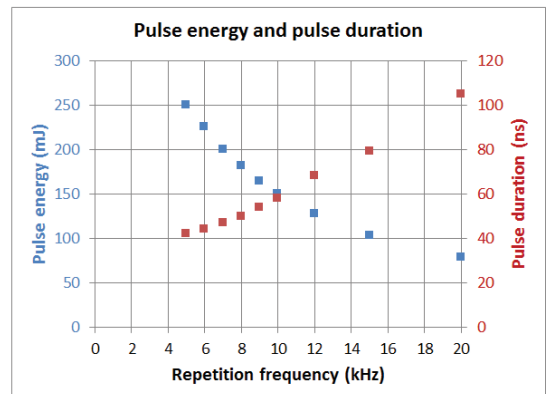
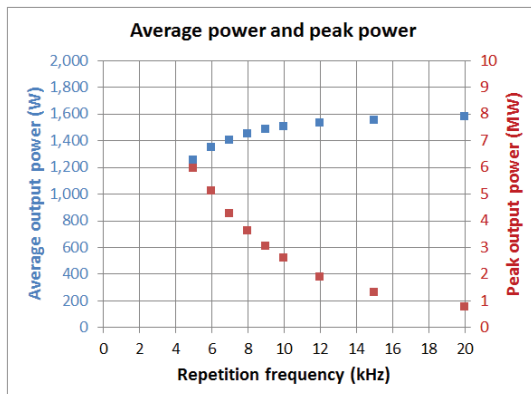


### Features

- Pulse Energy Up To 250 mJ
- $M^2 = 30$
- Excellent Stability
- Condition Monitoring
- Optional Fibre Delivery (Round Or Square)
- Optional Computer Controlled Attenuation
- Optional Repetition Frequency Optimisation

### Applications

- Material Processing
- Photovoltaic Processing
- Thin Film Removal
- Rapid Laser Patterning
- Extreme Ultraviolet (EUV) Generation





## Typical Laser Performance

Pulse Repetition Freq. (kHz)	5	10	15	20
Average Power (W)	2 x 1250	2 x 1500	2 x 1550	2 x 1580
Pulse Energy (mJ)	2 x 250	2 x 150	2 x 103	2 x 79
Pulse Duration (ns)	42	60	80	105
Divergence (mrad, 1/e <sup>2</sup> FA)	12			
M <sup>2</sup>	30			
Power Stability (% , 1σ)	0.3			
Typical Fibre Option (µm)	Contact PPL			

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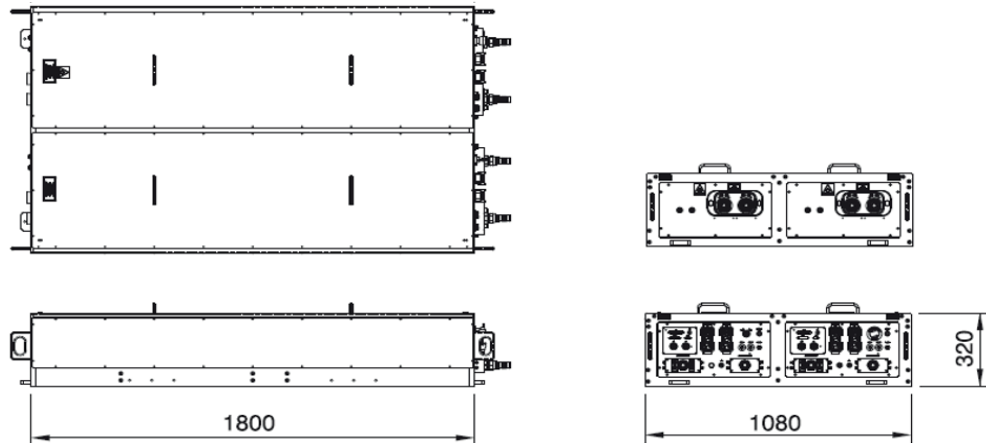
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## Facility Requirements

Supply Voltage	3-phase N+E, 220 or 400 VAC (±10%)
Supply Frequency	50 or 60 Hz
Nominal Power Consumption	78 kVA
Cooling Water	120 litres/min at 11 - 17°C
Gas Purge	N2 or Air (Grade N5.0, <1 ppm THC)
Laser Dimensions	1800 x 1080 x 320 mm
Control Rack Dimensions	1195 x 600 x 970 mm (h w d)
Environmental Conditions	Temp 15 - 32°C and RH <60% (90% max, non condensing)

Specifications subject to change without notice.

## Dimensions



LASER RADIATION  
 AVOID EYE OR SKIN EXPOSURE TO  
 DIRECT OR SCATTERED RADIATION  
 CLASS 4 LASER PRODUCT

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