



Rigel i800

800W High Power, Diode Pumped, Short Pulse Laser

An 800 watt, Q-switched, DPSS laser, delivering high average power 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 is ideally suited to high volume industrial applications.

Rigel i200

Rigel i400

Rigel i600

Rigel i800

Rigel i1000

Rigel i1600

Rigel i3200

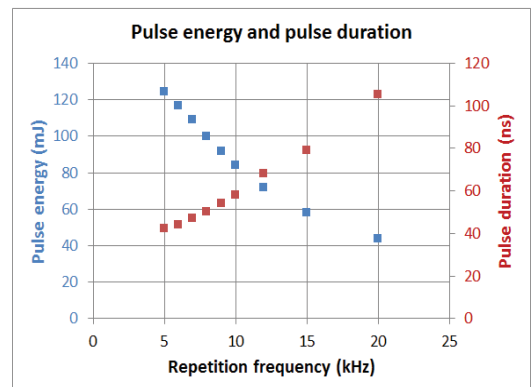
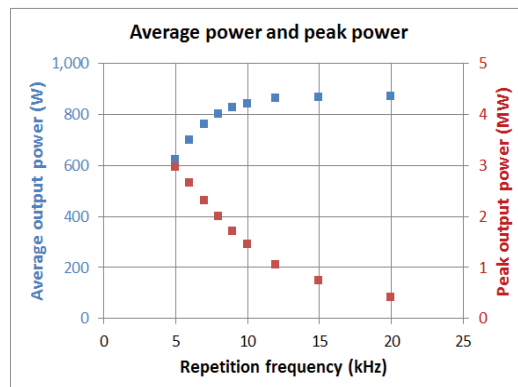


Features

- Pulse Energy Up To 120 mJ
- $M^2 = 30$
- Excellent Stability
- Condition Monitoring
- Optional Fibre Delivery (Round or Square)
- Optional Computer Controlled Attenuation
- Optional Repetition Frequency Optimisation

Applications

- LCD Production
- Photovoltaic Processing
- Thin Film Removal
- Rapid Laser Patterning
- Material Processing





Typical Laser Performance

| | | | | |
|--|-----------------------|-----|-----|-----|
| Pulse Repetition Freq. (kHz) | 5 | 10 | 15 | 20 |
| Average Power (W) | 620 | 840 | 865 | 870 |
| Pulse Energy (mJ) | 124 | 84 | 58 | 44 |
| Pulse Duration (ns) | 42 | 60 | 80 | 105 |
| Divergence (mrad, 1/e ² FA) | 12 | | | |
| M ² | 30 | | | |
| Power Stability (% , 1σ) | 0.3 | | | |
| Typical Fibre Core (µm) | 800 (Square or Round) | | | |

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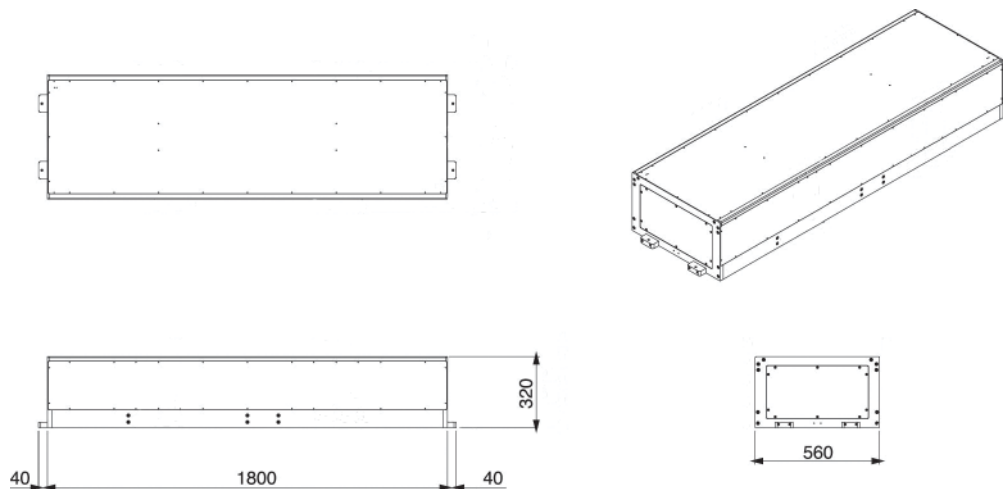
Rigel i3200

Facility Requirements

| | |
|---------------------------|--|
| Supply Voltage | 3-phase N+E, 220 or 400 VAC (±10%) |
| Supply Frequency | 50 or 60 Hz |
| Nominal Power Consumption | 18 kVA |
| Cooling Water | 40 litres/min at 11 - 17°C |
| Gas Purge | N2 or Air (Grade N5.0, <1 ppm THC) |
| Laser Dimensions | 1800 x 560 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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