



# Rigel u80

## 80W

## High Power, Diode Pumped, Short Pulse, UV Laser

A Q-switched, intra-cavity frequency tripled laser, delivering high average powers up to 80 W in an unpolarised multi-mode beam at a wavelength of 355 nm. With a well proven rugged head design, state of the art universal control system architecture, simple synchronisation with OEM equipment and process lines, this platform is ideally suited to high volume industrial applications.

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Rigel u180



#### Features

- · Pulse Energy Up To 8 mJ
- M<sup>2</sup> < 25</li>
- · Excellent Power Stability
- GUI Controlled
- · Dual Polarised Outputs
- · Single Unpolarised Output

### • Applications

- Material Processing
- · Photovoltaic Processing
- Thin Film Removal
- Laser Lift Off (LLO)
- Annealing
- · Surface Cleaning







#### **Typical Laser Performance**

Pulse Repetition Freq. (kHz)	10
Average Power (W)	80
Pulse Energy (mJ)	8
Pulse Duration (ns)	50
$M^2$	<25
Power Stability (%, 1σ)	<2

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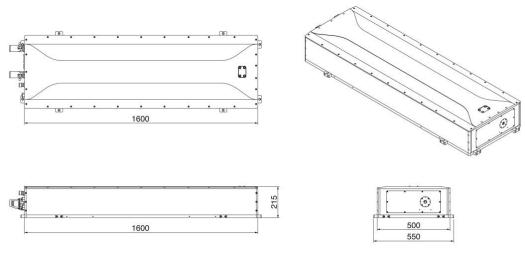
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#### **Facility Requirements**

Supply Voltage	3-phase N+E, 220 or 400 VAC (±10%)
Supply Frequency	50 or 60 Hz
Nominal Power Consumption	18 kVA
Cooling Water	40 litres/min at 11 - 17°C
Gas Purge	N2 or Air (Grade N5.0, <1 ppm THC)
Laser Dimensions	1600 x 500 x 215 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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