



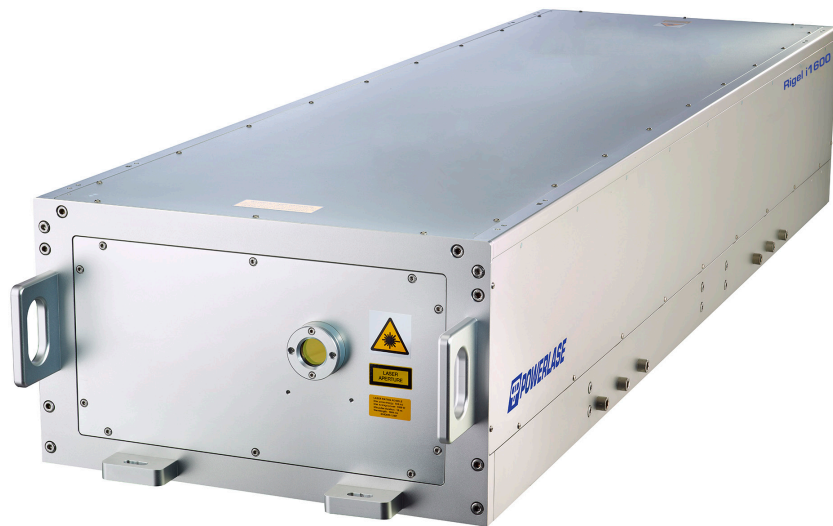
# Rigel g400

## 400W High Power, Diode Pumped Short Pulse Laser

A Q-switched, intra-cavity frequency doubled laser, delivering high average powers up to 400 W in an unpolarised multi-mode beam at a wavelength of 532 nm. 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 g200

Rigel g400

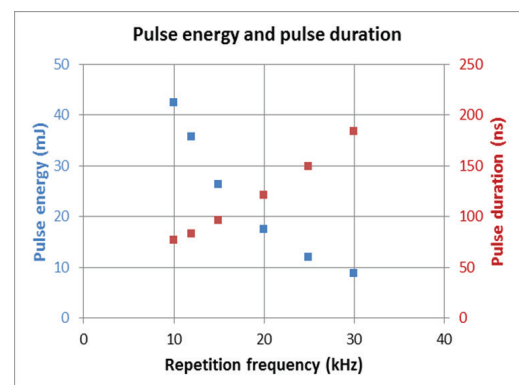
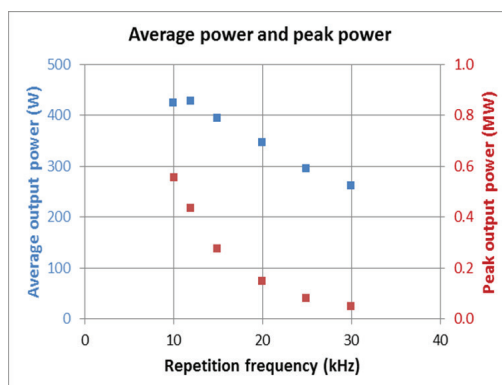


### Features

- Pulse Energy Up To 40 mJ
- $M^2 = 28$
- Excellent Stability
- Optional Dual Polarised Outputs
- Optional Single Unpolarised Output
- Optional Fibre Delivery (Round Or Square)
- Optional Repetition Frequency Optimisation

### Applications

- Photovoltaic Processing
- Poly - Silicon Annealing
- Hard Materials Processing
- Micro Machining
- Ti:Sapphire Pumping





## Typical Laser Performance

Pulse Repetition Freq. (kHz)	10	15	20	30
Average Power (W)	420	390	340	260
Pulse Energy (mJ)	42	26	17	9
Pulse Duration (ns)	75	95	120	180
Divergence (mrad, 1/e <sup>2</sup> FA)	6			
M <sup>2</sup>	28			
Power Stability (% , 1σ)	0.5			
Typical Fibre Core (μm)	600			

## Facility Requirements

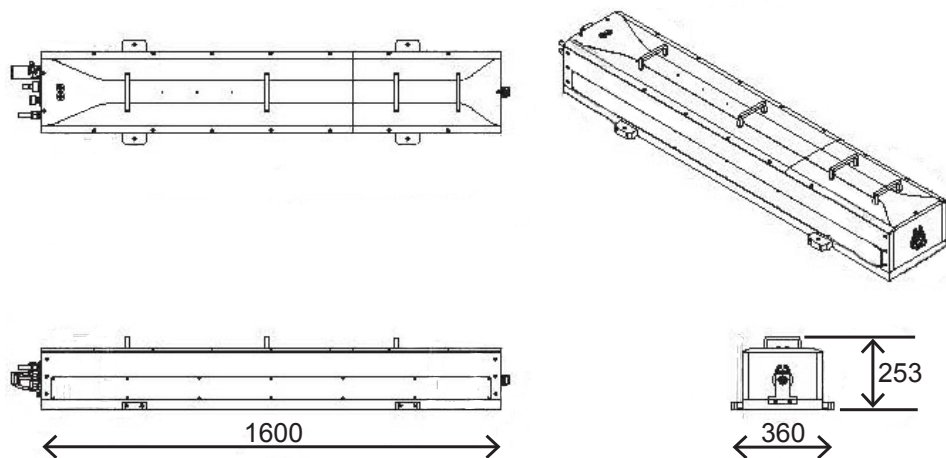
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Supply Voltage	3-phase N+E, 220 or 400 VAC (±10%)
Supply Frequency	50 or 60 Hz
Nominal Power Consumption	20 kVA
Cooling Water	40 litres/min at 11 - 17°C
Gas Purge	N2 or Air (Grade N5.0, <1 ppm THC)
Laser Dimensions	1900 x 600 x 235 mm
Control Rack 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

ANDRITZ Powerlase may make improvements and/or changes in the products described herein at any time without notice.

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