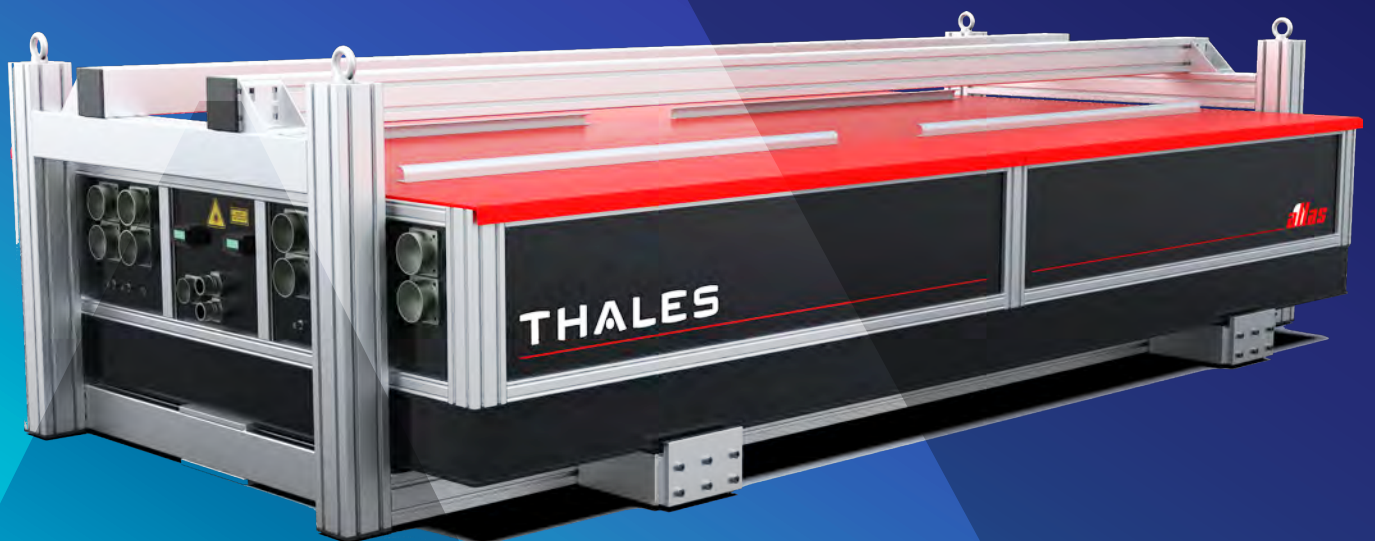


ATLAS Flashlamp-Pumped Glass Laser Series

Most compact 100 J
green laser
Worldwide reference

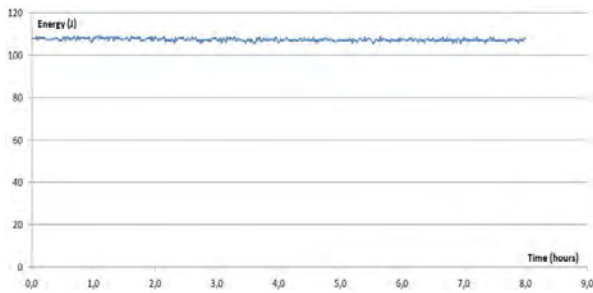


ATLAS Flash Pump Solid State Laser

Applications

- Pumping lasers for PW and multi PW systems
- Laser shock peening
- Plasma Physics

Long Term Stability of ATLAS 100 over 8 Hours



Physical Characteristics (L x W x H)

Electronic cabinets

ATLAS 30	30.71 x 22.05 x 64.57 in	78 x 56 x 164 cm (1 Unit)
ATLAS 100	30.71 x 22.05 x 64.57 in	78 x 56 x 164 cm (2 Units)

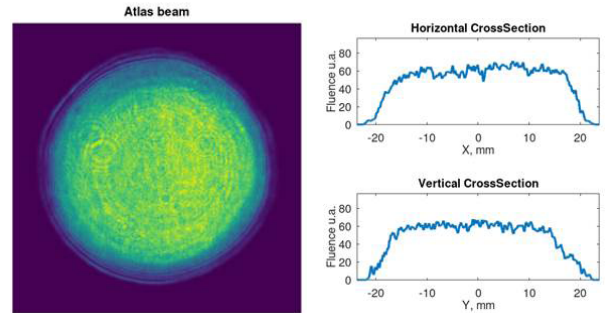
Cooling unit

ATLAS 30, 100	32.68 x 17.52 x 23.62 in	83 x 44.5 x 60 cm
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Laser Head

ATLAS 30	105.51 x 40.55 x 25.98 in	268 x 103 x 66 cm
ATLAS 100	105.51 x 54.33 x 25.98 in	268 x 138 x 66 cm

Typical ATLAS beam profile at 527 nm



Features and Benefits

- World reference in PetaWatt and higher laser class systems pumping
- Most compact 100 J green laser for pumping
- The only proven "plug and play" technology
- Highly manufacturable – on the shelf product

Specifications

Version	ATLAS 30	ATLAS 100
Wavelength (nm)	527	
Repetition rate (Hz)	0.1 Hz	1/60 Hz
Energy per pulse (J)	> 30 or > 2x15	> 100 or > 2x50
Pulse to pulse energy stability (% rms)	< 1.5	
Pulse duration FWHM (ns)	2 x 20	
Time jitter (ns rms)	< 1	
Polarization	Linear	
Typical beam diameter (mm)	20	41
Divergence (mrad)	< 2	< 1
Beam pointing stability (µrad)	< 60	< 30
Beam spatial profile (near field)	Top hat	
Power consumption (kW)	4.5	4.1

Utilities and Environment Requirements

Voltage	230 VAC ± 5% Single phase	
Frequency	50 – 60 Hz	
Water Flow	> 4 gal/min	> 15 L/min
Static Pressure	43.5 – 72 psi	3 – 5 bars
Temperature	10 – 20°C	

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