



HIGH ENERGY RELIABLE PICOSECOND LASER

Air355™



Overview

The Enlight Air355 lasers provides a cutting-edge and reliable light source for demanding applications where micro beam spot, precise and quality material processing, and high throughput are critical.

Air355 lasers are deliberately designed to provide excellent performance and high reliability. With high peak power and short pulse width, Air355 lasers enable minimal thermal damage for best quality material processing and the highest possible throughput.

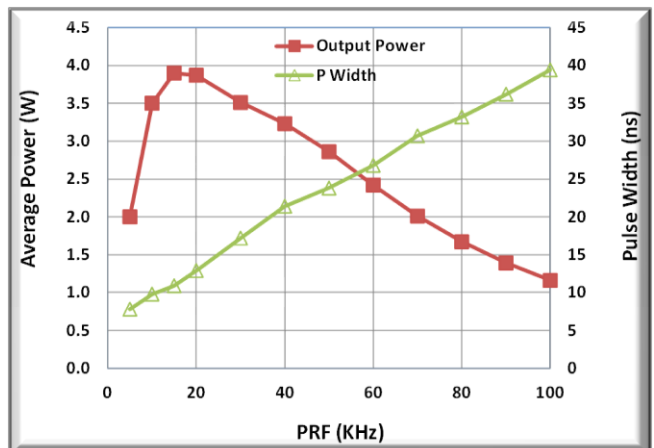
Incorporating Enlight's reliable and cutting-edge DPSS laser cavity technologies along with precise and active controlling design, Air355 lasers are characterized by excellent TEM₀₀ beam quality, stable power and long lifetime. They are built for 24/7 industrial applications for lowest ownership cost and highest uptime.

Features

- High Peak power and short pulse width (<10ns) for minimized thermal damage
- Advanced optical packaging and optimized design for rugged, compact and air-cooled laser
- Long lifetime ensures lowest cost of ownership and high uptime
- High efficiency with stable power and highest reliability
- Advanced and precise controlling design with build-in burst mode control
- Excellent beam quality (M2<1.2) and reliability

Applications

- Via hole drilling
- LED laser scribing and lift-off
- Precision laser marking
- Wager scribing isolation
- Laser glass cutting





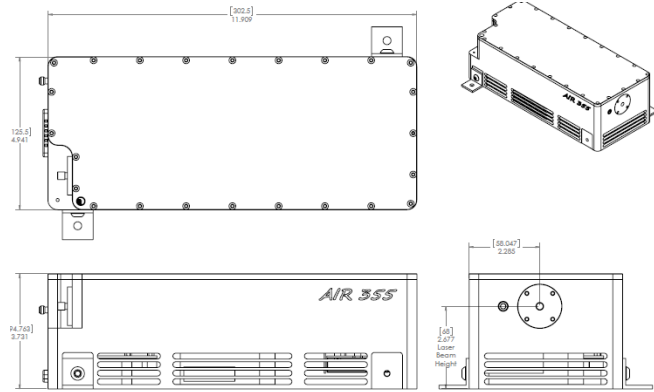
HIGH ENERGY DPSS Q-SWITCHED UV LASER

Air355™

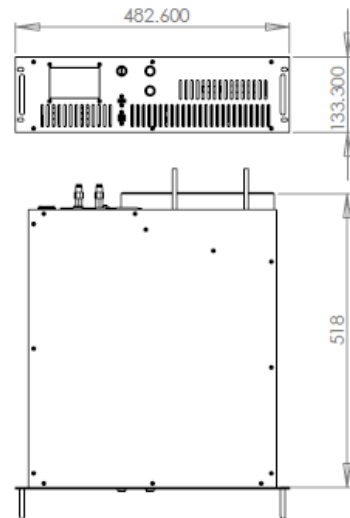
Specifications

Characteristics	Air355	Air355-Plus
Wavelength	355nm	
Repetition Rate	Single -250 KHz	Single-250 KHz
Output Power	>3W@10KHz	>3.5W@10KHz
	>3.5W@20KHz	> 5W@20KHz
Pulse Width	<10ns@10KHz	<15ns@10KHz
	10-20ns@30KHz	15-25ns@30KHz
Spatial Mode	TEM ₀₀	
M ²	<1.2	
Polarization	Linear	Linear
PER	>100:1	>100:1
Beam Roundness	>90%	
Warm-up Time (from cold start)	<30 min	
Operating Temp. Range	18 to 35°C	
Operating Humidity	5-80%, non-condensing	
Non-operating Temp. Range	0-50°C	
Non-operating Humidity	8-95%, non-condensing	

Laser Head Dimensions



Power Supply Dimensions



Dimensions are in mm

Enlight Tech

3455 NW John Olsen Pl.
Hillsboro, OR 97124