Advanced Optowave™
diode-pumped solid-state laser solutions™

PRODUCT DATA SHEET
FOTIA 355

FOTIA

UV Industrial Nanosecound Lasers

Feature & Benefits :

- Easy to integrate laser head and controller
- Lowest Cost of Ownership in the industry
- Power up to 10W
- Excellent beam quality of M^2<1.2
- Simple and decent software interface
- High reliability for 7/24 applications

Applications :

- Surfarce marking
- Flying marking
- Glass inner engraving
- 3D SLA curing
- Laser resistor trimming
- High-speed marking & cutting of Polymer

FOTIA 355			
Specification	**355-3-50**	**355-5-50**	**355-10-50**
Wavelength(nm)	355		
Average Power (Watts)	>3W@50KHz	>5W@50KHz	>10W@50KHz
Pulse Enengy(μJ)	>60	>100	>200
Specificed Repetition Rate(kHz)	50		
Repetition rate(kHz)	30~150		
Pulse Width(ns)	<15ns		<13ns
Beam Quality(M^2)	<1.2		
Beam Roundness(%)	>95		
Beam Diameter(mm)	~0.45		~0.65
Beam Divergence(mRad)	<1.5		
Point Stability(μrad/°C)	<20		
Polarization Ratio	100:1 Linear,Horizontal		
Pulse-to-Pulse Stability(%RMS)	<3		
Average Power Stability(% over 12 hour)	<3		
Cold Start Warm-up(mins.)	<40		
Stand by Warm-up(mins.)	<10		
Operation Temperature Range(°C)	15-35°C		
Operation Humidity Range(%)	20 to 80,non-condensing		
Storage Temperature Range(°C)	-20 to 50		
Storage Humidity Range(%)	20 to 80,non-condensing		
Input supply (VDC/Amps)	24/300		24/450
Communication	RS232		
Cooling	Air/Water		
Laser Head(kg)	5.24		
Controller(kg)	5.4		

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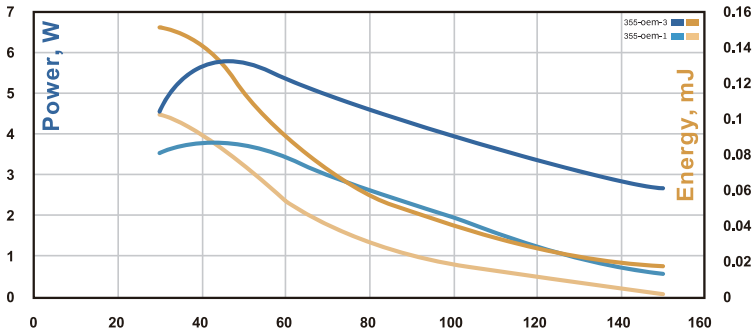
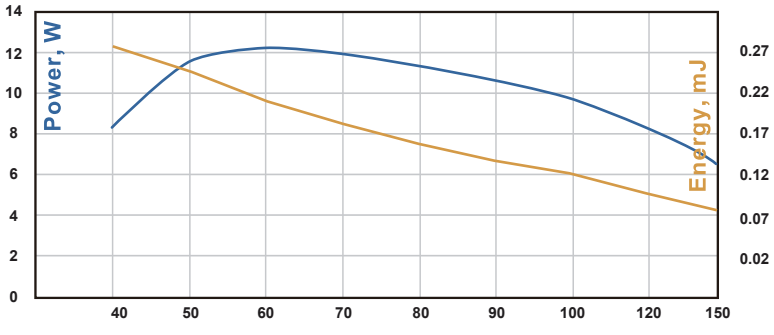
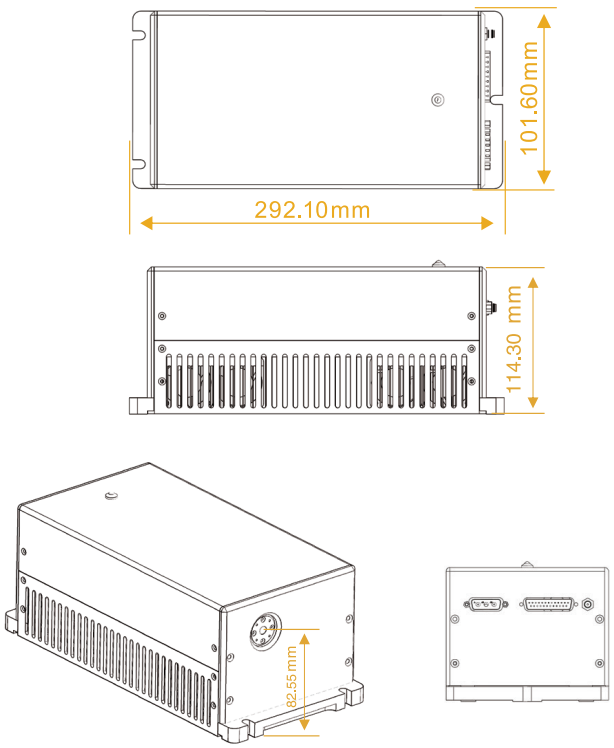
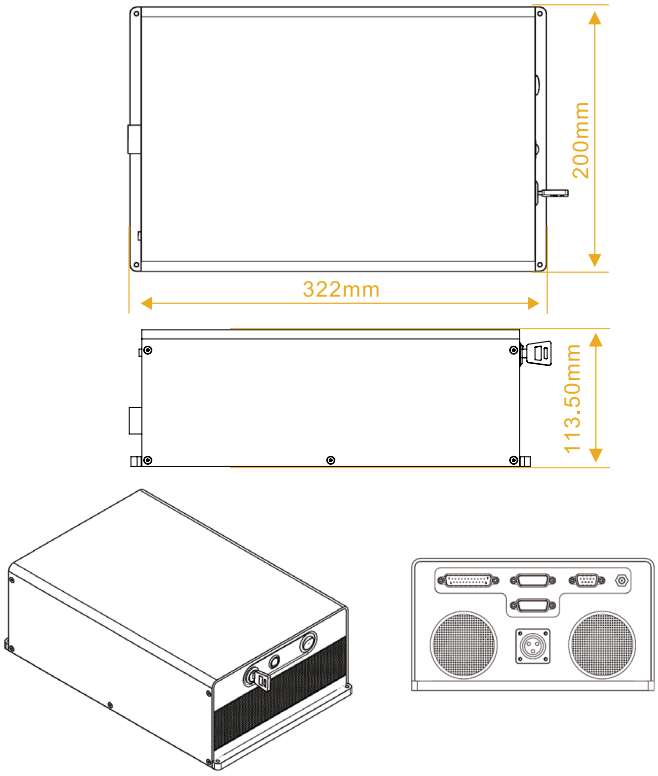
Typical Performance FOTIA 355-3-50 / 355-5-50
Power and Energy as a Function of Repetition Rate



Typical Performance FOTIA 355-10-50
Power and Energy as a Function of Repetition Rate







COMPLIANCE: CE

*Advanced Optowave Corporation follows a policy of continuous product improvement.Specifications are subject to change without notice. Advanced Optowave Corporation offers a limited warranty for all Nanosecond UV laser systems.For full details on warranty coverage, or for further product information,please contact us.