

FORMULA

UV Industrial Nanosecond Lasers



Feature & Benefits :

- All-in-one box design for easy integration
- Lowest Cost of Ownership in the industry
- Power up to 25W
- Excellent beam quality of $M^2 < 1.2$
- Simple and decent software interface
- High reliability for 24/7 applications

Applications :

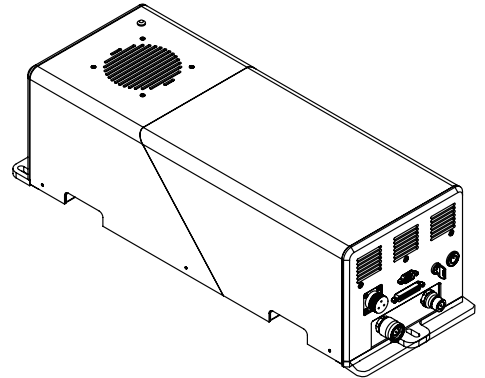
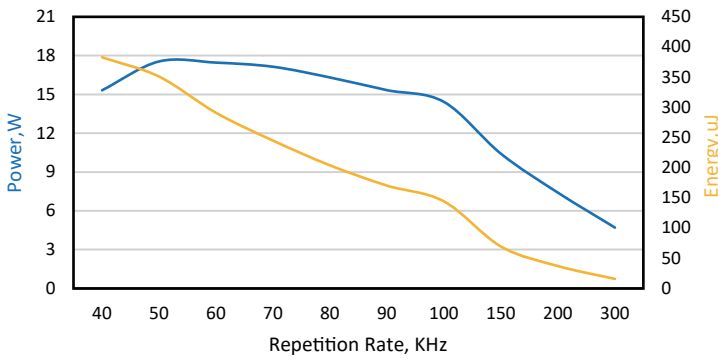
- Flying marking
- SIP cutting
- Thin film/PI film cutting
- PCB/FPC cutting & micro-machining
- Semiconductor/PV/Wafer Scribing
- Bio-medical application

| FORMULA 355 | | | |
|---|-------------------------|------------|------------|
| Specification | 15W-50K | 20W-60K | 25W-50K |
| Wavelength(nm) | 355 | | |
| Average Power (Watts) | >15W@50KHz | >20W@60KHz | >25W@50KHz |
| Pulse Energy(μJ) | >300 | >400 | >500 |
| Specified Repetition Rate(kHz) | 50 | 60 | 50 |
| Repetition rate(kHz) | 40 - 300 | | |
| Pulse Width(ns) | <15 | | <20 |
| Beam Quality(M^2) | <1.2 | | |
| Beam Roundness(%) | >90 | | |
| Beam Diameter(mm) | -0.55 | -0.47 | -0.55 |
| Beam Divergence(mRad) | < 2 | | |
| 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 to 35 | | |
| Operation Humidity Range(%) | 20 to 80,non-condensing | | |
| Storage Temperature Range(°C) | - 20 to 50 | | |
| Storage Humidity Range(%) | 20 to 80,non-condensing | | |
| Input Voltage(VDC)/Rated Power(W) | 24 / 450 | | |
| Communication | RS232 | | |
| Cooling | Water | | |
| Weight(kg) | 20 | | |

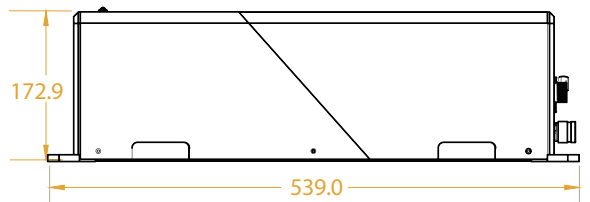
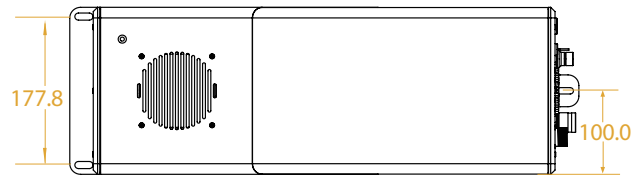
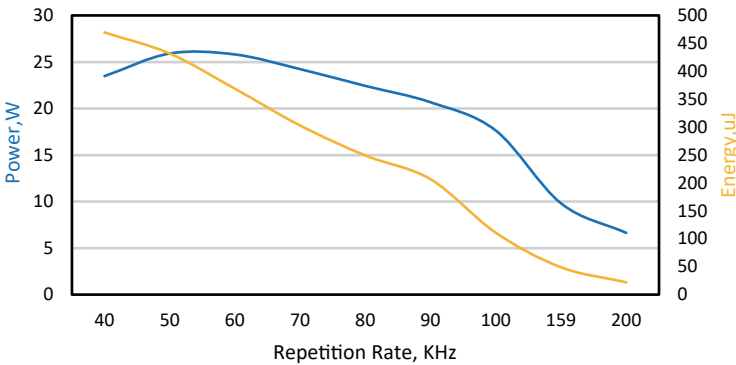
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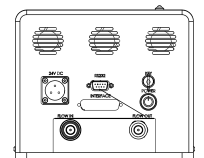
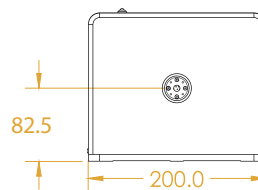
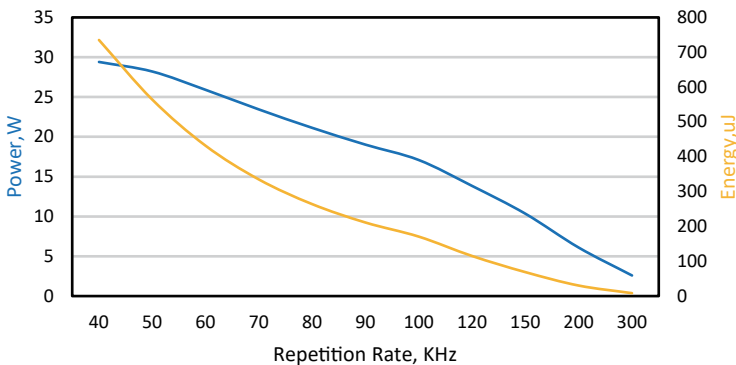
Typical Performance FORMULA 355-15-50
Power and Energy as a Function of Repetition Rate



Typical Performance FORMULA 355-20-60
Power and Energy as a Function of Repetition Rate



Typical Performance FORMULA 355-25-50
Power and Energy as a Function of Repetition Rate



*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.

