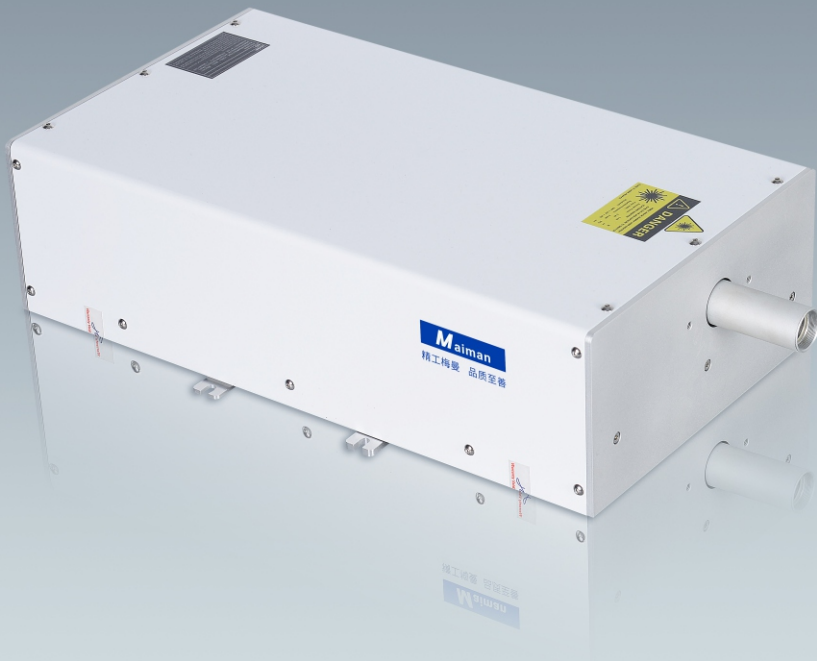


# UV-diamond series high power UV laser



**15-30W**

The laser power

**UV-clean**

Patented technology

**20000hrs<sup>+</sup>**

The service life

## Introduction

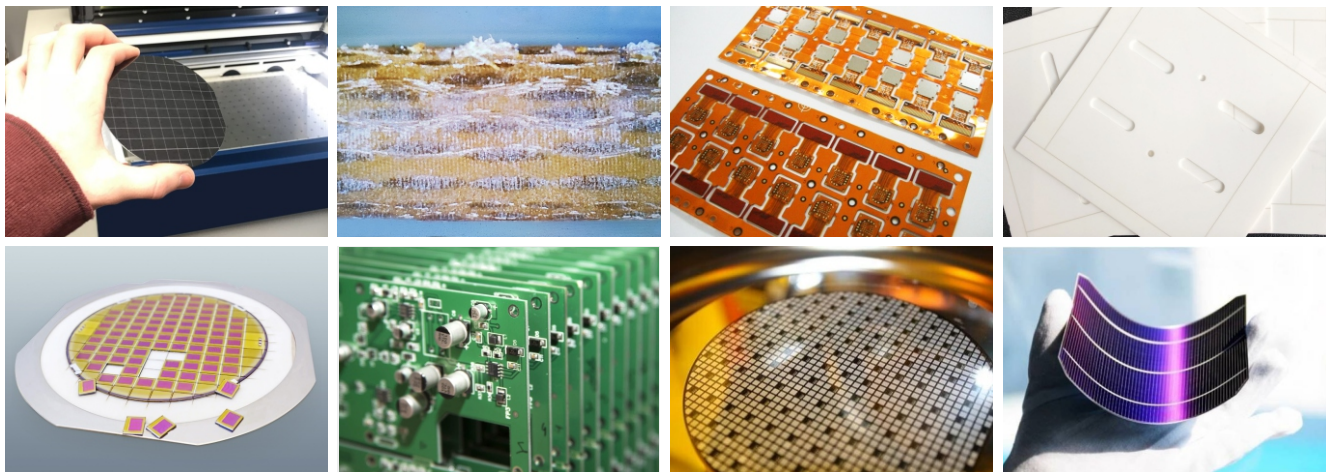
High power UV laser source effectively solves the problem of power attenuation, and has superior beam quality and pulse stability, worry-free used.

## Features

- The laser power 15-30W;
- Adopt UV-clean patented technology to solve power attenuation, worry-free used;
- The service life exceeds 20000 hours, maintenance free and regular commissioning is not required;
- Excellent beam quality  $M^2 < 1.1$ , simple process and higher efficiency;
- 3-layer protection, protection grade IP65, more suitable for harsh working environment;
- Rugged, easy to install and easy to integrate.

## Application

- Solar cell scribing
- PCB&FPC splitting and cutting
- Silicon wafer scribing
- Film cutting



## Specifications

Model No.	MMEPU- D-355-15	MMEPU- D-355-18	MMEPU- D-355-20	MMEPU- D-355-25	MMEPU- D-355-30
<b>Optical Characteristics</b>					
Wavelength (nm)	355nm±1nm				
Average Power (W)	>15W@50kHz	>18W@50kHz	>20W@50kHz	>25W@50kHz	>30W@50kHz
Single Pulse Energy (uJ)	~300uJ@50kHz	~350uJ@50kHz	~400uJ@50kHz	~500uJ@50kHz	~600uJ@50kHz
Pulse Width (ns)	15ns@50kHz	12ns@50kHz	12ns@50kHz	12ns@50kHz	12ns@50kHz
Repetition Rate	50kHz-500kHz				
Pulse Stability	<3% rms				
Long Term Stability	<±3%				
<b>Beam Characteristics</b>					
Polarization Ratio	Horizontal;>100:1				
Beam Diameter	~1mm(at exit)/~6mm(6X beam divergence)				
Beam Circularity	>90%				
Spatial Mode	TEM <sub>00</sub> , M <sup>2</sup> <1.1				
<b>Operating Specifications</b>					
Warm-up Time	<15 minutes from cold start				
Electrical Requirement	DC24V,500W				
Ambient Temperature	10-35°C, RH<80%				
Storage Conditions	-10-40°C, RH<90%				
<b>Physical Characteristics</b>					
Cooling System	Water-Cooled				
Water Temperature (laser inlet)	25°C				

## Dimensional Drawings

