

PicoYL-UV-15/10

PicoYL-UV-15 has a pulse duration of 800ps, repetition rates from 300 kHz up to 1.2 MHz and 15W average power. The short pulse duration, high repetition rates combined with 40kW peak power open a variety of micromachining applications such as PERC solar cell dicing, glass drilling, sapphire drilling, Li-Ion battery foil cutting, resistor trimming and marking of transparent material. The laser is completely controlled via an industry standard digital interface with optional DB25 or RS-232.



Features:

- Average Power 15W
- Pulse Duration 800ps
- Peak Power 40kW
- Repetition Rate 300kHz-1.2MHz
- Pulse Energy 30μJ
- Beam Quality $M^2 < 1.3$
- Burst Mode Function

Applications:

- PERC Solar Cell Dicing
- Lion Ion Battery Foil Cutting
- Glass Drilling
- Silicon or SiC Dicing
- Metal Marking
- Chrome Vanadium Texturing
- Micromaching of Transparent materials

Specifications:

Model	PicoYL-UV-15/10
Wavelength	343nm
Average Power	15W/10W
Repetition Rate	300kHz-1.2MHz
Power Stability	<2%
Pulse Energy	30μJ/20μJ
Peak Power	40kW/25kW
Pulse Duration	800ps
Beam Quality	M ² <1.3
Beam Diameter	~2mm (1m from output aperture)
Beam Divergence (Full Angle)	<2mrad (Defined by ISO-11146-1)
Output Polarization	Linear Polarized(S)
Sync Output	SMA TTL pulse
Control	RS232 or DB25
Power Requirements	AC 100V-240V 50/60Hz Rated output>960W
Dimensions (L*W*H)	540mm*320mm*127mm

