

PicoYL-100/70/50/20

PicoYL-100 has a tunable pulse duration from 50 ps to 800ps, repetition rates from 25 kHz up to 5 MHz and 100W average power. The short pulse duration, high repetition rates combined with 1MW 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 100W
- Pulse Duration 50ps-800ps
- Peak Power 1MW
- Repetition Rate 25kHz-5MHz
- Pulse Energy 300μJ@800ps
- $M^2 < 1.3$
- 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-100/70/50/20
Wavelength	1035nm
Average Power	100W/70W/50W/20W
Repetition Rate	25kHz-5MHz
Power Stability	<2%
Pulse Energy	300μJ/210μJ/150μJ/60μJ@800ps
Peak Power	1MW/0.7MW/0.5MW/0.2MW
Pulse Duration	50-800ps adjustable
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

