PicoYL-70

YSL Photonics' PicoYL-70 has a tunable pulse duration from 50 ps to 800ps, repetition rates from 25 kHz up to 5 MHz and over 70W average power. The short pulse duration, high repetition rates combined with over 1MW peak power open up 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 >70W
- Pulse Duration 50, 300, 800ps
- Peak Power 1MW
- Repetition Rate 25kHz-5MHz
- Pulse Energy >350uJ@800ps
- M^2<1.3
- Burst Mode Function (1-4, 40MHz)

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-70
Wavelength	1030±5nm
Average Power	>70W
Repetition Rate	25kHz-5MHz
Power Stability	<2%
Pulse Energy	>50uJ@50ps or >350uJ@800ps
Peak Power	>1MW
Pulse Duration	50,300,800ps
Switch On/Off Time	<5us
Beam Quality	M^2<1.3
Beam Diameter	2mm
Beam Divergence	<2mrad
Output Polarization	Linear Polarized
Trigger	SMA
Supply Power/Current	DC24V/8A
Dimensions	1200mm*410mm*141mm
Control	RS232 or DB25

100W high power version available

515nm Optional Output: >40W; >150uJ@800ps