

## PicoYL-40-600-20

**YSL Photonics'** PicoYL-40-600-20 has a continuously tunable pulse duration from 600 ps to 4 ns and repetition rates from 100 kHz up to 1 MHz. The short pulse duration, high repetition rates combined with over 60kW peak power give high speed, permanent black/color marking on a variety of metals, thin film coating and thermal sensitive materials. The single mode beam quality picosecond pulses with over 60kW peak power open up a variety of micromachining applications such as 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 20W
- Pulse Duration 600ps
- Peak Power 60kW
- Repetition Rate 100kHz-1000kHz
- Pulse Energy 200 $\mu$ J@4ns or 40uJ@600ps
- $M^2 < 1.3$
- Burst Mode Function

### Applications :

- Black Marking
- Lion Ion Battery Foil Cutting
- Thin Film Solar Cell Scribing
- Silicon or SiC Dicing
- Resister Trimming
- Chrome Vanadium Texturing
- Micromaching of Transparent materials

## Specifications :

Model	PicoYL-40-600-20
Wavelength	1064nm
Average Power	~20W
Repetition Rate	100-1000kHz
Power Stability	<2%
Pulse Energy	>40uJ@600ps or >200uJ@4ns
Peak Power	60kW
Pulse Duration	600ps-4ns
Switch On/Off Time	<5us
Beam Quality	$M^2 < 1.3$
Beam Diameter	5-8mm
Beam Divergence	<1mrad
Output Polarization	Random
Trigger	SMA
Supply Power/Current	DC24V/8A
Dimensions	400mm*336mm*138mm
Control	RS232 or DB25