

PicoYL-30-100-20

YSL Photonics' PicoYL-30-100-20 has a continuously tunable pulse duration from 100 ps to 4 ns and repetition rates from 25 kHz up to 1 MHz. The short pulse duration, high repetition rates combined with over 300kW 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 300kW 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 100ps
- Peak Power 300kW
- Repetition Rate 25kHz-1000kHz
- Pulse Energy 300μJ@1ns or 30uJ@100ps
- $M^2 < 1.3$
- Burst Mode Function

Applications :

- LED Sapphire Substrate Dicing
- Lion Ion Battery Foil Cutting
- Thin Film Solar Cell Scribing
- Silicon or SiC Dicing
- Metal Marking
- Chrome Vanadium Texturing
- Micromaching of Transparent materials

Specifications :

Model	PicoYL-30-100-20
Wavelength	1030nm
Average Power	~20W
Repetition Rate	25-1000kHz
Power Stability	<2%
Pulse Energy	>30uJ@100ps or >300uJ@1ns
Peak Power	300kW
Pulse Duration	100ps-4ns
Switch On/Off Time	<5us
Beam Quality	$M^2 < 1.3$
Beam Diameter	6.5mm
Beam Divergence	<1mrad
Output Polarization	Linear Polarized
Trigger	SMA
Supply Power/Current	DC24V/8A
Dimensions	400mm*336mm*138mm
Control	RS232 or DB25