

High Power Picosecond Pulse Laser



The picosecond pulse laser series FPYL-Q-PS is offered with peak power up to 100W at a repetition rate of 1MHz and a pulse width of <10ps. Available wavelengths are 266nm (1-8W), 355nm (1-50W), 532nm (1-80W) and 1,064nm (1-100W). The repetition frequency range is between 400kHz and 2MHz. The power stability is <3% (<1% optional).

The pulse-to-pulse stability is <2%. Both are measured in rms and over 4 hours. The output beam is transverse mode TEM00 and has high beam quality of $M^2 < 1, 2$. With a beam diameter of ~3mm and a divergence <1mrad the output beam is very well collimated.

The laser will be delivered with an appropriate power supply for the voltage range 100-240V as well as a water chiller.

Due to the high power with pulse widths <10ps these lasers are excellent suited for micro material processing. Typical applications are:



Applications:

- Flexible Materials Processing
- Brittle Materials Processing
- OLEDs Processing
- Glass & Ceramic Cutting and Drilling
- Semiconductor Industry.

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