

## Diode Pumped Q-switched Solid State Laser

### What should I put in the request of the laser specifications beside the model number?

Please provide your required following Q-switched laser specifications:

1. The preferred laser pulse repetition rate range of laser operation.
2. Laser pulse energy at certain rep. rate or the rep. rate range;
3. Laser pulse width at required rep. rate range;
4. Laser wavelength range;
5. Other specifications that may be important to the application requirements, like linewidth etc.
6. If you do not know above specifications, you may discuss your application with our application engineers to get your required specs.

While our sales and application engineers received more information from you, we will select the laser model number and optimize the laser design for your application. We will provide the laser which is most suitable for your specific application.

E.g. One requested a green laser, 520-540 nm range, operation rep. rate range 100 Hz to 3 kHz, prefer pulse width of 5 ns to 25ns, and pulse energy require 0.2mJ at 1 kHz.

With above information, we will select a laser meet the requirement the best in lowest cost.

When you order the compact Q-switched laser from us, you do not need to list all the standard specifications, however, all the above 1-4 items should be listed in the order form.

CrystaLaser's Q-switched laser can be controlled by external TTL signal to trigger the laser from single pulse up to 500 kHz trigger rep rate. The laser pulse energy ranges from 1 micro-J up to 1 mJ, wavelength from 262 nm up to 1550 nm, output power from 5 mW up to 5W, laser pulse width from 5 ns to 200 ns. The pulse jitter of the Q-switched laser of +/-3 ns can be reached.

### Why people select Q-switched laser from CrystaLaser?

1. The most compact active Q-switched lasers.
2. The lasers provide quite high output power and energy for most applications.
3. The wall plug efficiency is 3X higher than other competitors' products in this global. So the generated heat, weight, and beam pointing stability, power stability will be not a big problem for some special applications. The lasers can be easily battery powered, handheld. So the portable instruments require CrystaLaser.
4. Quantity products are proved reliability through the major semiconductor industrial customers.
5. Special robust design for field, ocean, air, and space applications. The lasers are proved and are using in desert, in Tropical Ocean and in the North Pole and in airplanes.

### How can I get more information for the Q-switched lasers?

Please fill out the information request form from the web site [www.crystalaser.com](http://www.crystalaser.com); please can you describe your detail application requirements. CrystaLaser's application engineers can select the most suitable laser for your applications.