# Compact Air-cooled DPSS Nd:YAG Q-switched Laser Systems

## General Information

We offer air-cooled diode pumped Q-switched Nd:YAG systems with output energies up to 100mJ at fundamental wavelength and near-Gaussian beam profile.

Systems contain a compact laser resonator pumped by the specially designed power supply in a unibody aluminum case. Parameters can be controlled from the PC through RS-485 / USB interfaces.

Embedded second harmonic generator and the motorized attenuator are available as options. UV harmonics modules can be attached as separate units.

Nd:YLF modifications are available on request.

## Applications

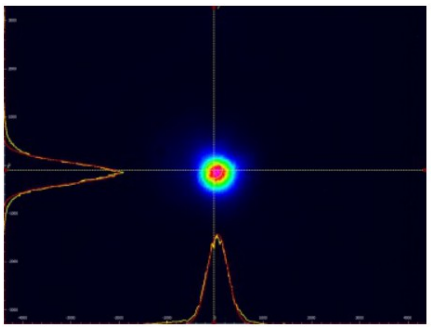
- LIDAR
- Ti:Sa / OPO / Dye Lasers Pumping
- LIBS / Spectroscopy
- LIDT
- LIF
- Material Ablation

## Specifications[1]

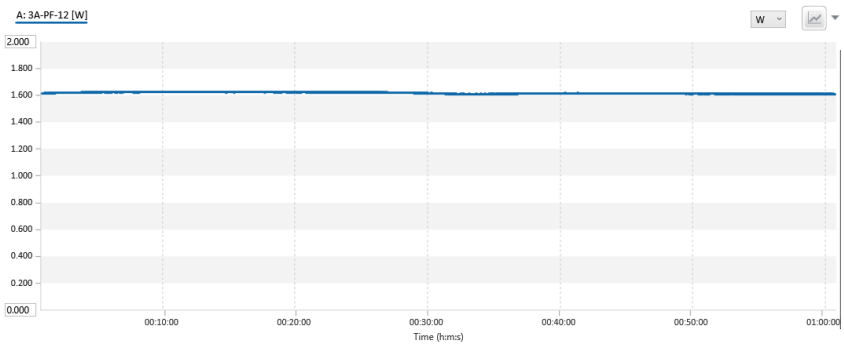
| | | ND-60A | ND-100A |
|---|---|---|---|
| Repetition rate, Hz | | 20 (10 - optional) | |
| Pulse duration (FWHM), ns | 1064 nm | 8...12 | |
| Pulse energy, mJ[2] | 1064 nm | 60 | 100 |
| | 532 nm | 35 | 60 |
| Energy stability, % | 1064 nm | ±2 | |
| Jitter, ns[3] | | ±1 | |
| Polarization | | Linear | |
| Beam diameter (near field), mm | | ~4 | ~5 |
| Beam profile | | Bell-shaped, close to Gaussian | |
| Beam divergence (full angle for 86% of energy), mrad | | ≤3,0 | |
| Body size (LxWxH) / Weight | | 380x230x155 mm / ~11,5 kg | |
| Power supply parameters | | +24 VDC | |
| Operation temperature, °C | | 15...30, non-condensing conditions | |

[1] Specifications are subject to change without notice due to continuous improve of products
[2] UV harmonics generators parameters are available on request
[3] With respect to external TTL triggering signal

**Typical far-field beam profile**



**Typical long-term power stability graph**

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