

# CLASS 5

## ARGO OPCPA

Modular multi-color laser suite from deep-UV to Mid-IR

**ARGO** is our high-power widely tunable, multi-color laser suite capable of delivering sub-50-fs pulses with market-leading conversion efficiency. Combining our advanced OPCPA technology with conversion stages, the system delivers wavelengths from deep-UV (200 nm) to mid-IR (16.2  $\mu\text{m}$ ). Our new **Class 5 Bridge**, an IoT-enabled modular control system, connects multiple **ARGO** units to build advanced pump-probe setups.

## Features

### Widely tunable system

From deep-UV (200 nm) to mid-IR (16.2  $\mu\text{m}$ )

### High conversion efficiency

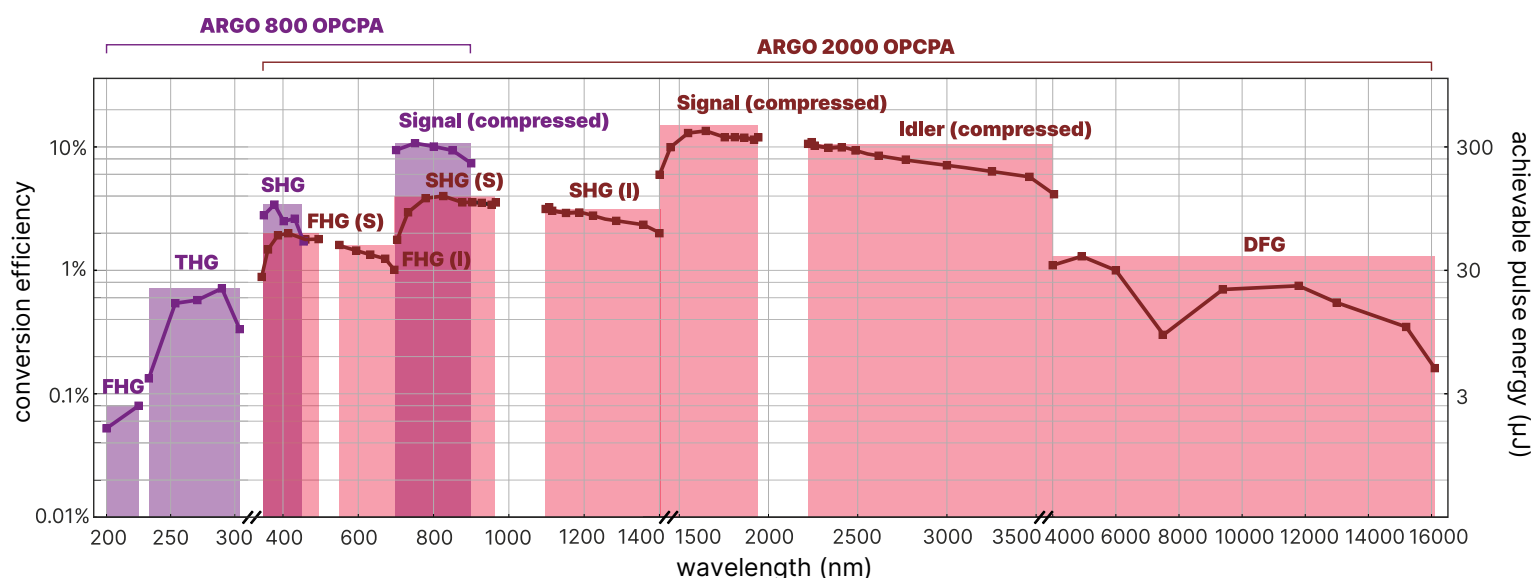
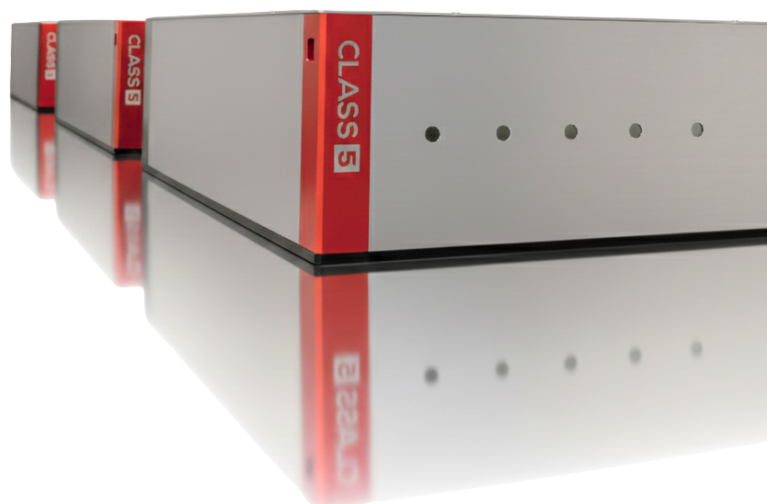
Market-leading conversion efficiency thanks to advanced OPCPA technology

### High pulse energies and average power

Tunable output power of 30 W/300  $\mu\text{J}$  possible

### Class 5 Bridge: Build your pump-probe suite

All ARGO units can be connected to a multi-color pump-probe setup with **Class 5 Bridge** modular control system.



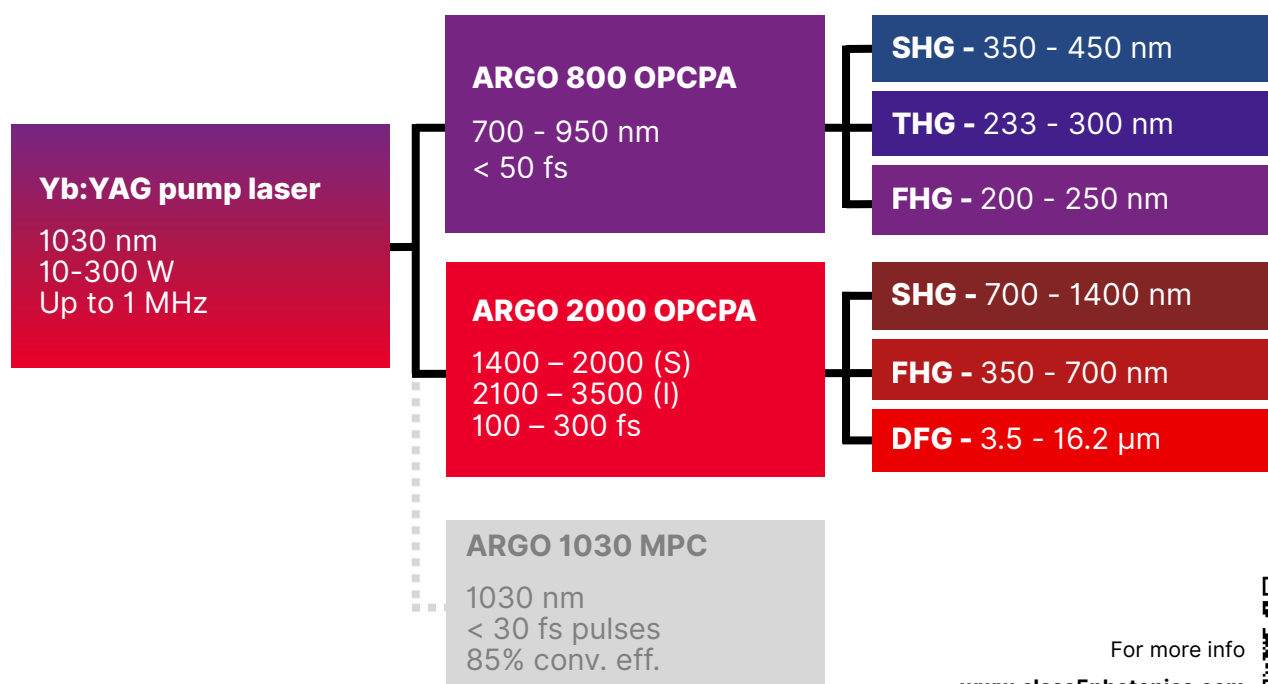
Typical conversion efficiencies. Actual values depend on pump laser performance.

## Product specifications

| PRODUCT                     | ARGO 800                 | ARGO 800 Pro  | ARGO 2000                                | ARGO 2000 Pro          |
|-----------------------------|--------------------------|---------------|------------------------------------------|------------------------|
| Wavelength (central)        | 700-900 nm               |               | 1400 – 2000 nm (S)<br>2100 – 3500 nm (I) |                        |
| Pulse duration              | < 50 fs                  |               | 100 - 300 fs                             |                        |
| Conv. efficiency (@ peak)   | 8% @ 800 nm (compressed) |               | 13% Signal<br>12% Idler                  | 10% Signal<br>8% Idler |
| Pump energy                 | 20 - 100 µJ              | 100 - 3000 µJ | 20 - 100 µJ                              | 100 - 3000 µJ          |
| Repetition rate             | Up to 1 MHz              |               |                                          |                        |
| Pump laser power            | 10-300W                  |               |                                          |                        |
| SHG range / conv.* (@ peak) | 350-450 nm / 2%          |               | 700-1400 nm / 6%                         |                        |
| THG range / conv.* (@ peak) | 233-300 nm / 0.4%        |               | --                                       |                        |
| FHG range / conv.* (@ peak) | 200-225 nm / 0.08%       |               | 350 - 700 nm / 2%                        |                        |
| DFG range / conv.* (@ peak) | --                       |               | 3.5 - 16.2 µm / 0.7%                     |                        |

\*conversion efficiencies 1030 nm pump laser to output

## Class 5 Bridge: Modular control system



For more info

[www.class5photonics.com](http://www.class5photonics.com)

