

# QUASI-CW Q-SWITCHED Nd:YAG LASERS



## Quasi-CW Q-Switched Nd:YAG Laser

### MODELS

**LF 2210**

**LF 241**

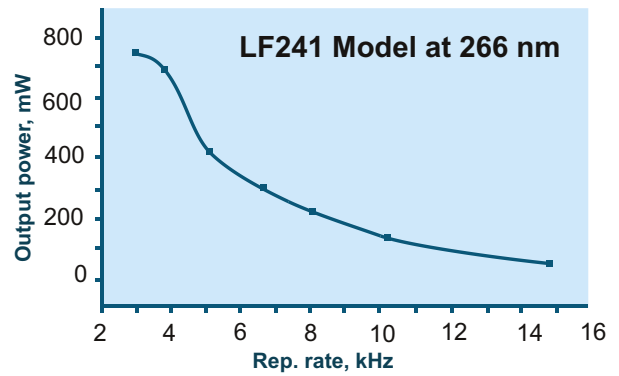
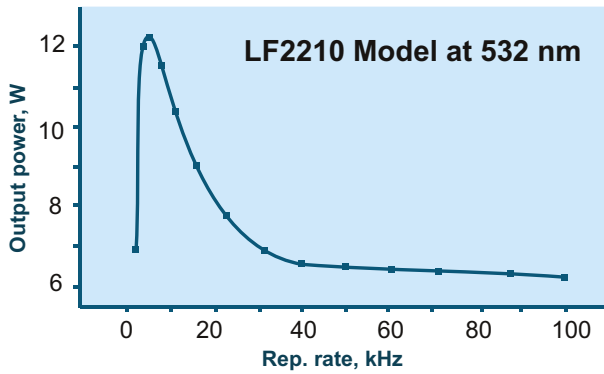
- ◆ SOLAR TII offers a family of Arc-lamp Pumped Quasi-CW Nd:YAG VIS and UV Lasers
- ◆ High reliability, stability and reproducibility make the lasers friendly both for research and industrial applications
- ◆ PC-controlled operation allows the lasers to be integrated into technological and measuring systems

- ◆ The Laser Head design is based on solid Invar bars to ensure high-order thermal and mechanical stability for laser cavity and, as a result, high long-term stability and reproducibility of laser output parameters.
- ◆ The intracavity second harmonic generation allows high output powers to be attained in the green with moderate arc lamp currents what improves the arc lamp lifetime to more than 400 hrs.
- ◆ The Q-switch driver is originally-designed to permit time (in/out) synchronization of laser output pulses to start other lasers, external devices or processes thus giving excellent opportunities to LF2210 to be used as a pump for femtosecond Ti:Sa amplifier stages.
- ◆ The LF2210 emitting in the green can be completed by a nanosecond high-efficiency high-repetition rate SOLAR TII Ti:Sapphire laser Model CF231 to allow output wavelength tuning across a broad spectral range from 700 nm to 950 nm (350 to 470 nm for SHG option).

## SPECIFICATIONS

	<b>LF2210</b>	<b>LF241</b>
Mode:	MM	MM
Laser medium:	Nd:YAG	Nd:YAG
Wavelength:	532 nm	266 nm
Repetition rate:	1-15 kHz	1-15 kHz
Output power at 4 kHz R.R.:	10,0 W (7,5 W at 1 kHz)	0,5 W
Pulse to pulse stability at 4 kHz R.R.:	2,5%	4,0%
Beam diameter:	4,0 mm	3,0 mm
Beam divergence:	2,5 mrad	3,0 mrad
Standards compliance:	EN 61010, IEC 601	
Electrical requirements:	380 VAC, 3 phase, 50/60 Hz (200 VAC, 3 phase, 50/60 Hz)	
Overall size (LxWxH)		
Laser Head:	900x200x225 mm	
Power Supply:	560x530x770 mm	

Average output power as a function of pulse repetition rate for:



**DIMENSIONAL DRAWING**

