

## Series CL210 *short pulse*



**20 Watt 1064 nm**  
**10 Watt 532 nm**  
**4 Watt 355 nm**

- high repetition rate solid-state diode pumped Q-switched laser in oscillator-amplifier configuration
- fundamental 1064 nm, green 532 nm and UV 355 nm available
- water-cooled, compact laser for micro and precision processing
- no additional cooling unit required
- excellent beam quality
- short pulses at high repetition rates
- high Peak Power
- first pulse suppression by fast energy modulation
- high reliability for 24/7 operation
- ports for TTL, analog and RS 232 control
- cost-effective operation
- customised modifications possible

### Applications

- rapid prototyping
- micro-machining
- thin film structuring
- marking, trimming

Model	CL 210-1064 sp	CL 210-532 sp	CL 210-355 sp
Wavelength	1064 nm	532 nm	355 nm
Power	15 W @10 kHz 20 W @ 30 kHz	10 W @10 kHz 10 W @ 30 kHz	4 W @ 10 kHz 3 W @ 30 kHz
Pulse Repetition Rate	1 – 100 kHz		
Pulse Width	8 ns @10 kHz 10 ns @ 30 kHz	5 ns @ 10 kHz 8 ns @ 30 kHz	5 ns @10 kHz 8 ns @ 30 kHz
Pulse Energy	1,5 mJ @10 kHz 0,6 mJ @ 30 kHz	1,0 mJ @10 kHz 0,3 mJ @ 30 kHz	0,4 mJ @10 kHz 0,1 mJ @30 kHz
Beam Quality	M <sup>2</sup> < 1,4		
Polarisation	Linear		
Cooling	Laser head / power supply – water / water		
Dimension Laserhead (W/H/L)	150 mm × 115 mm × 500 mm		
Dimension Power Supply (W/H/L)	2 × 19 Inch, 3 RU (OEM version opt. available)		
Power Consumption	110 –240 V, 50–60 Hz, 800 W		
Operating Temperature	15 – 35 °C		