

Series CL210 *short pulse (water cooled)*



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 (w) | CL 210-532 sp (w) | CL 210-355 sp (w) |
|--------------------------------|--|-----------------------------------|----------------------------------|
| 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 ² < 1,4 | | |
| Polarisation | Linear | | |
| Cooling | Laser head / power supply – water / water | | |
| Dimension Laserhead (W/H/L) | 150 mm × 116 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 | | |