

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		



Series CP400



4 Watt 1064 nm
2 Watt 532 nm
1 Watt 355 nm

- high peak power solid-state diode pumped Q-switched laser
- fundamental 1064 nm, 532 nm and 355 nm available
- air-cooled, compact laser for micro and precision processing
- no additional cooling unit required
- excellent beam quality
- short pulses
- high peak power
- pulse on demand
- high reliability for 24/7 operation
- ports for TTL, analog and RS 232 control
- cost-effective operation

Applications

- rapid prototyping
- wavelength sensitive processes
- micro-machining
- marking, structuring, trimming
- glass engraving



Model	CP400-1064	CP400-532	CP400-355
Wavelength	1064 nm	532 nm	355 nm
Power	4W @ 4 kHz	2 W @ 4 kHz	1 W @ 4 kHz
Pulse Repetition Rate	1 ... 4000 Hz	1 ... 4000 Hz	1 ... 4000 Hz
Pulse Width	10 ns @ 4 kHz	8 ns @ 4 kHz	8 ns @ 4 kHz
Pulse Energy	1000 µJ @ 4 kHz	500 µJ @ 4 kHz	250 µJ @ 4 kHz
Beam Quality	M ² < 1,3		
Polarization	linear		
Dimension Laserhead (W/H/L)	125 mm × 129 mm × 410 mm		
Dimension Power Supply (W/H/L)	260 mm x 250 mm x 132 mm		
Power Consumption	24 V DC, 300 W		
Operating Temperature	15 ... 35 °C		

CP410 - Compact , Pulsed Nd:YAG



Features

- solid-state diode pumped actively Q-switched laser
- air-cooled, compact laser for micro and precision processing
- MW peak power
- short pulses
- pulse on demand
- ports for TTL and RS 232 control
- available @ 1064 nm, 532 nm (*355 nm on request)

Model	CP410-1064	CP410-532	CP410-355 (*)
Wavelength	1064 nm	532 nm	355 nm
PeakPower	1,6 MW	0,87 MW	0,37 MW
Pulse Repetition Rate	1 ... 100 Hz	1 ... 100 Hz	1 ... 100 Hz
Pulse Width (FWHM)	8 ns	8 ns	8 ns
Pulse Energy	15 mJ	7 mJ	3 mJ
Beam Quality	M ² < 5	M ² < 5	M ² < 6
Polarization	linear		
Pulse-to-Pulse Stability (rms)	< 3 %		
Dimension Laser Head (W/H/L)	300 mm × 125 mm × 75 mm		
Dimension Power Supply (W/H/L)	19" Rack, 3 HU		
Cooling	Base plate cooling		
Operating Temperature	15 ... 35 °C		

For customer specific solutions please feel free too contact us.



CP420 - Compact , Pulsed Nd:YAG



Features

- solid-state diode pumped actively Q-switched laser
- air-cooled, compact laser for micro and precision processing
- MW peak power
- short pulses
- pulse on demand
- ports for TTL and RS 232 control
- available @ 1064 nm, 532 nm (*355 nm on request)

Model	CP420-1064	CP420-532	CP420-355 (*)
Wavelength	1064 nm	532 nm	355 nm
PeakPower	5,0 MW	2,5 MW	1,0 MW
Pulse Repetition Rate	1 ... 100 Hz	1 ... 100 Hz	1 ... 100 Hz
Pulse Width (FWHM)	10 ns	10 ns	10 ns
Pulse Energy	50 mJ	25 mJ	10 mJ
Beam Quality	M ² < 5	M ² < 5	M ² < 6
Polarization	linear		
Pulse-to-Pulse Stability (rms)	< 3 %		
Dimension Laser Head (W/H/L)	300 mm × 125 mm × 75 mm		
Dimension Power Supply (W/H/L)	19" Rack, 3 HU		
Cooling	Base plate cooling		
Operating Temperature	15 ... 35 °C		

For customer specific solutions please feel free too contact us.

Series CP600



7,5 Watt 1064 nm
3 Watt 532 nm

- high peak power solid-state diode pumped Q-switched laser
- fundamental 1064 nm and green 532 nm
- air-cooled, compact laser for micro and precision processing
- no additional cooling unit required
- excellent beam quality
- short pulses
- high peak power
- Pulse on demand
- high reliability for 24/7 operation
- ports for TTL, analog and RS 232 control
- cost-effective operation
- customised modifications possible

Applications

- rapid prototyping
- wavelength sensitive processes
- micro-machining
- thin film structuring
- marking, trimming
- glass engraving

Model	CP 600-1064	CP 600-532
Wavelength	1064 nm	532 nm
Power	7,5 W @ 10 kHz	3 W @ 10 kHz
Pulse Repetition Rate	1 ... 10 kHz	1 ... 10 kHz
Pulse Width	4 ns @ 10 kHz	3,5 ns @ 10 kHz
Pulse Energy	750 µJ 10 kHz	300 µJ 10 kHz
Beam Quality	$M^2 < 1,4$	$M^2 < 1,6$
Polarization	Linear	Linear
Dimension Laserhead (W/H/L)	125 mm × 119 mm × 320 mm	125 mm × 119 mm × 320 mm
Dimension Power Supply (W/H/L)	19 Inch, 3 RU	19 Inch, 3 RU
Power Consumption	110 –240 V, 50–60 Hz, 300 W	110 –240 V, 50–60 Hz, 300 W
Operating Temperature	15 – 35 °C	15 – 35 °C