

## Series CL200-V

**12 Watt 1064 nm**  
**4 Watt 532 nm**  
**1,5 Watt 355 nm**



CL200-1064

- high repetition rate solid-state diode pumped Q-switched laser
- fundamental 1064 nm, green 532 nm and UV 355 nm available
- air-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

### Applications

- rapid prototyping
- micro-machining
- thin film solar cell scribing
- marking, structuring, trimming



CL200-532/355

Model	CL 200-1064	CL 200-532	CL 200-355
Wavelength	1064 nm	532 nm	355 nm
Power	12 W cw 10W @ 20 kHz	4 W @ 15 kHz	1,5 W @ 15 kHz
Pulse Repetition Rate	1 ... 200 kHz		
Pulse Width	30 ns @ 20 kHz	20 ns @ 25 kHz	20 ns @ 25 kHz
Pulse Energy	600 µJ @ 10 kHz	300 µJ @ 10 kHz	120 µJ @ 10 kHz
Beam Quality	M <sup>2</sup> < 1,2	M <sup>2</sup> < 1,4	
Polarisation	Linear		
Dimension Laserhead (W/H/L)	80 mm × 138 mm × 495 mm	125 mm × 129 mm × 600 mm	
Dimension Power Supply (W/H/L)	19 Inch, 3 RU		
Power Consumption	110 ... 240 V, 50 ... 60 Hz, 300 W		
Operating Temperature	15 ... 35 °C		

## Series CL200-V-hp

**20 Watt 1064 nm**  
**6 Watt 532 nm**  
**2 Watt 355 nm**



CL200-1064

### Features

- high repetition rate 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 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



CL200-532/355

Model	CL 200-1064	CL 200-532	CL 200-355
Wavelength	1064 nm	532 nm	355 nm
Power	22 W cw 20W @ 50 kHz	6 W @ 20 kHz	2 W @ 20 kHz
Pulse Repetition Rate	20 ... 250 kHz		
Pulse Width	30 ns @ 50 kHz	15 ns @ 20 kHz	15 ns @ 20 kHz
Pulse Energy	400 µJ @ 50 kHz	300 µJ @ 20 kHz	100 µJ @ 20 kHz
Beam Quality	M <sup>2</sup> < 1,2	M <sup>2</sup> < 1,4	M <sup>2</sup> < 1,4
Polarisation	linear		
Dimension Laserhead (W/H/L)	80 mm × 138 mm × 495 mm	125 mm × 129 mm × 600 mm	
Dimension Power Supply (W/H/L)	19 Inch, 3 RU		
Power Consumption	110 ... 240 V, 50 ... 60 Hz, 300 W		
Operating Temperature	15 ... 35 °C		

## Series CL200sp



CL200sp-1064

- high repetition rate solid-state diode pumped Q-switched laser
- fundamental 1064 nm and green 532 nm available
- compact laser for micro and precision processing
- excellent beam quality
- short pulses at high repetition rates
- high reliability for 24/7 operation
- ports for TTL, analog and RS 232 control
- cost-effective operation
- one of smallest laser in its class
- customised modifications possible

### Applications

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



CL200sp-532

Model	CL 200sp-1064	CL 200sp-532
Wavelength	1064 nm	532 nm
Power	3,5 W @ 10 kHz	2 W @ 10 kHz
Pulse Repetition Rate Intern Trigger Extern Trigger	1 – 70 kHz 1 – 200 kHz	
Pulse Width	10 ns @ 10 kHz	6 ns @ 10 kHz
Pulse Energy	350 µJ @ 10 kHz	200 µJ @ 10 kHz
Beam Quality	M <sup>2</sup> < 1,3	M <sup>2</sup> < 1,4
Polarization	linear	
Dimension Laser Head (W/H/L)	Fan cooled base plate 80 mm × 130 mm × 495 mm	Fan cooled base plate 125 mm × 130 mm × 410 mm Passive cooled base plate 125 mm × 75 mm × 410 mm
Dimension Power Supply	19" Rack , 3 HU	
Power Consumption	110 –240 V, 50–60 Hz, 350 W	
Cooling Laser Head	Fan cooled base plate	Fan cooled base plate Passive cooled base plate
Operating Temperature	15 – 35 °C	

## CL200-Y-m

**0,75 W @ 355 nm**



- Actively Q-switched diode pumped solid-state laser
- air-cooled, compact laser for micro and precision processing
- no additional cooling unit required
- excellent beam quality
- first pulse suppression
- high reliability for 24/7 operation
- ports for TTL, analog and RS 232 control
- cost-effective operation

### Applications

- rapid prototyping
- micro-machining
- thin film solar cell scribing
- marking, structuring, trimming

Model	CL 200-Y-1064-m	CL 200-Y-532-m	CL 200-Y-355-m
Wavelength	1064 nm	532 nm	355 nm
Power	1500 mW @ 1 kHz 5000 mW @ 5 kHz 6000 mW @ 10 kHz	750 mW @ 1 kHz 2000 mW @ 5 kHz 2500 mW @ 10 kHz	300 mW @ 1 kHz 600 mW @ 5 kHz 250 mW @ 10 kHz
Pulse Repetition Rate	1 ... 50 kHz		
Pulse Width	20 ns @ 1 kHz 30 ns @ 5 kHz 50 ns @ 10 kHz	18 ns @ 1 kHz 22 ns @ 5 kHz 35 ns @ 10 kHz	16 ns @ 1 kHz 20 ns @ 5 kHz 30 ns @ 10 kHz
Pulse Energy	1500 µJ @ 1 kHz 1000 µJ @ 5 kHz 600 µJ @ 10 kHz	750 µJ @ 1 kHz 400 µJ @ 5 kHz 250 µJ @ 10 kHz	300 µJ @ 1 kHz 120 µJ @ 5 kHz 25 µJ @ 10 kHz
Beam Quality	$M^2 < 1,3$	$M^2 < 1,4$	
Polarisation	Linear		
Dimension Laserhead (W/H/L)	125 mm × 130 mm × 460 mm		
Dimension Power Supply (W/H/L)	19 Inch, 3 RU		
Power Consumption	110 ... 240 V, 50 ... 60 Hz, 300 W		
Operating Temperature	15 ... 35 °C		