

Series CP400-1



4 mJ 1064 nm
2,5 mJ 532 nm
1 mJ 355 nm

- high peak power Q-switched DPSS- laser
- 1064 nm - 532 nm and 355 nm available
- compact, air cooled laser for micro and precision processing
TEM₀₀ beam quality
- short pulses – **8ns** - with mJ pulse energy
- high reliability for 24/7 operation
- ports for TTL, analog and RS 232 control
- cost-effective operation

Applications

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

Model	CP400-1-1064	CP400-1-532	CP400-1-355
Wavelength	1064 nm	532 nm	355 nm
Power	4 W @ 1000 Hz	2,5 W @ 1000 Hz	1 W @ 1000 Hz
Pulse Repetition Rate	Single shot ... 1000 Hz		
Pulse Width	10 ns @ 1000 Hz	8 ns @ 1000 Hz	8 ns @ 1000 Hz
Pulse Energy	4 mJ @ 1000 Hz	2,5 mJ @ 1000 Hz	1 mJ @ 1000 Hz
Beam Quality	M² < 1,4		
Polarization	linear		
Dimension Laserhead (W/H/L)	80 mm × 116 mm × 495 mm	132 mm × 116 mm × 495 mm	
Dimension Power Supply	19 Inch Rack, 3 HU		
Operating Temperature	15 ... 35 °C		
Operating Voltage	110 ... 240 V, 50 ... 60 Hz		

Series CP400- 2



Conduction cooled base plate
Up to 2 kHz PRF



Fan cooled base plate
Up to 4 kHz PRF

- 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	CP400-2-1064	CP400-2-532	CP400-2-355
Wavelength	1064 nm	532 nm	355 nm
Power	4 W @ 2 kHz	2 W @ 2 kHz	0,5 W @ 2 kHz
Pulse Repetition Rate	1 ... 2000 Hz	1 ... 2000 Hz	1 ... 2000 Hz
Pulse Width	10 ns @ 2 kHz	8 ns @ 2 kHz	8 ns @ 2 kHz
Pulse Energy	2000 µJ @ 2 kHz	1000 µJ @ 2 kHz	250 µJ @ 2 kHz
Beam Quality	$M^2 < 1,3$		
Polarization	linear		
Dimension Laserhead (W/H/L)	Fan cooled base plate 125 mm × 129 mm × 410 mm Conduction cooled base plate 125 mm × 75 mm × 410 mm (opt.)		
Dimension Power Supply (W/H/L)	260 mm x 250 mm x 132 mm (OEM power supply) 19" Rack , 3 HU (standard power supply)		
Power Consumption	24 V DC, 750 W (OEM power supply) 110 –240 V, 50–60 Hz, 350 W (standard power supply)		
Operating Temperature	15 ... 35 °C		

Series CP400- 4



Conduction cooled base plate



Fan cooled base plate
Up to 4 kHz PRF

- 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	CP400-4-1064	CP400-4-532	CP400-4-355
Wavelength	1064 nm	532 nm	355 nm
Power	4 (1,5) W @ 4 (2) kHz	2 (1,5) W @ 4 (2) kHz	0,8 (0,5) W @ 4 (2) kHz
Pulse Repetition Rate	1 ... 4000 (2000) Hz	1 ... 4000 (2000) Hz	1 ... 4000 (2000) Hz
Pulse Width	6 ns @ 4 (2) kHz	4 ns @ 4 (2) kHz	4 ns @ 4 (2) kHz
Pulse Energy	1000 (750) µJ @ 4 (2) kHz	500 (375) µJ @ 4 (2) kHz	200 (125) µJ @ 4 (2) kHz
Beam Quality	$M^2 < 1,3$		
Polarization	linear		
Dimension Laserhead (W/H/L)	Fan cooled base plate 125 mm × 129 mm × 410 mm Conduction cooled base plate 125 mm × 75 mm × 410 mm (opt.) limited to 2kHz PRF		
Dimension Power Supply (W/H/L)	260 mm x 250 mm x 132 mm (OEM power supply) 19" Rack , 3 HU (standard power supply)		
Power Consumption	24 V DC, 750 W (OEM power supply) 110 –240 V, 50–60 Hz, 350 W (standard power supply)		
Operating Temperature	15 ... 35 °C		

(....) valid for conduction cooled base plate option