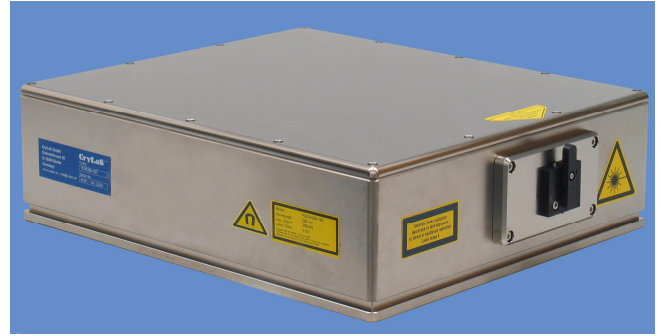




# FQCW 266-50/100

Diode Pumped Continuous Wave Solid State Laser

- 266 nm
- Continuous Wave
- Single Frequency
- Low Noise
- TEM<sub>00</sub>
- Up to 100 mW
- Conduction Cooling



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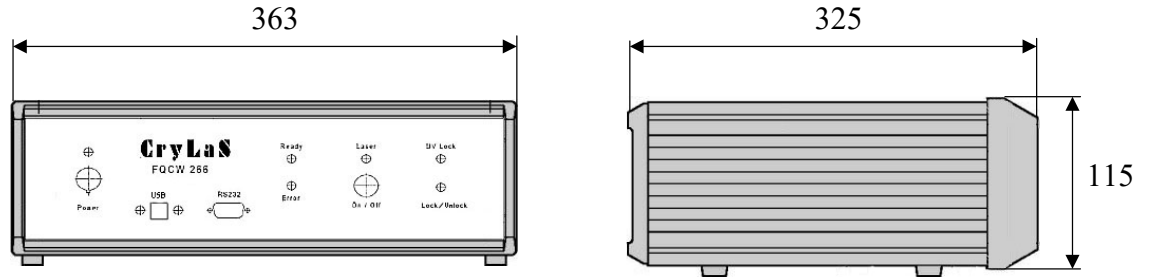
	Model	FQCW 266-50	FQCW 266-100
<b>Optical Data</b>	Nominal Output Power	50 mW	100 mW
	Output Power Adjustability	5 – 55 mW	10 – 110 mW
	Wavelength	266 nm	
	Linewidth	< 300 kHz	
	Coherence Length	> 1000 m	
	Beam Quality Factor M <sup>2</sup>	< 1.3	
	Polarization	vertical, > 100:1	
	Beam Diameter	0.55 mm ± 20 %	
	Beam Divergence (full angle)	< 0.8 mrad	
	Beam Pointing Stability <sup>1)</sup>	< 3 µrad / K	
Static Alignment Tolerance <sup>3)</sup>	Position < ± 0.25 mm, Angle < ± 2.5 mrad		
Power Stability <sup>1)</sup> (8 h, 1 s average)	< 1 % rms		
Noise (100 kHz - 10 MHz)	< 0.5 % rms		
<b>Electrical Data</b>	Line Voltage	90 V - 250 V AC	
	Power Consumption Mean (Max)	100 W (200 W)	
	Communication Interface	USB / RS 232	
	Safety Equipment	key switch, interlock	
<b>Miscellaneous</b>	Dimensions (control unit)	363 x 325 x 115 mm	
	Weight (control unit)	5.3 kg	
	Dimensions (laser head)	379 x 270 x 91 mm	
	Weight (laser head)	17 kg	
	Operating Temperature	20 °C to 35 °C non-condensing	
Warm-up Time (cold start)	< 15 minutes		

**Notes**

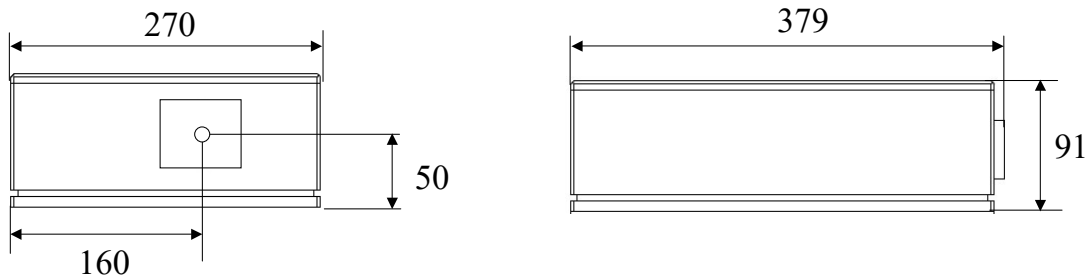
1. After 30 minutes warm-up in the temperature range 20 - 35 °C, temperature change < 1 °C/hour.
2. The exit window is equipped with the Manual Window Shifter (MWS) in case of external photo contamination. This laser system is equipped with the Automatic Crystal Shifter (ACS).
3. Position and angle of static alignment tolerances are specified with regard to laser beam exit.

## Dimensions

Control Unit:



Laser Head:



All dimensions in mm

## Laser Warning

The FOCW 266 lasers are class 4/IV according to IEC 60825-1:2007

