

FQCW266-50

Diode Pumped Continuous Wave Solid State Laser

- 266 nm
- Single Frequency
- High Power Stability
- Up to 50 mW
- $M^2 < 1.3$, TEM₀₀
- Conduction Cooled
- Manual Beam Blocker
- Automatic Crystal Shifter
- Patented Design*



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Optical Data	Wavelength	266 ± 0.2 nm
	Nominal Output Power	50 ± 2 mW
	Output Power Adjustability	5 mW to 55 mW
	Line Width	< 300 kHz
	Coherence Length	> 1000 m
	Beam Propagation Factor M ² (average of v and h) ⁽¹⁾	< 1.3, TEM ₀₀
	Polarisation Orientation and Purity	Vertical, > 100:1
	Beam Diameter	0.6 ± 0.1 mm
	Beam Divergence	< 0.8 mrad
	Static Alignment Tolerance ⁽²⁾	Lateral ± 0.25 mm Angular ± 2.5 mrad
	Spot-to-Spot Beam Pointing Variation	± 360 µrad
	Beam Pointing Stability	< 3 µrad/K < 3 µrad/h
	Power Stability (0.5 Hz over 8 hours after warm-up)	< 0.3 % rms ⁽³⁾
Electrical Data	Power Consumption Mean (Max)	< 100 W (160 W)
	Input Voltage	85 - 264 V AC (47 - 63 Hz)
	Communication Interfaces	USB RS232
	Safety Features	Key Switch Interlock
Miscellaneous	Warm-up Time Typical (Max) ⁽⁴⁾	15 min (30 min)
	Operating Temperature (Laser Head)	20 - 35 °C non-condensing
	Laser Head Dimensions	91 x 270 x 379 mm ³ (H x W x L)
	Control Unit Dimensions (w/o Connectors)	42 x 165 x 164 mm ³ (H x W x L)
	Laser Head Weight	14.7 kg
	Control Unit Weight	1.0 kg

Notes:

1. v: Vertical, h: Horizontal
2. Position and angle of static alignment tolerances are specified with regard to laser beam exit.
3. At Nominal power, for a temperature regulated base plate (without temperature regulation the power stability < 1% rms).
4. Warm-up in the temperature range 20 - 35 °C, temperature change < 1 K/h.

* Protected by patents: DE102022104383B3, DE102010064382B4, US9429814B2

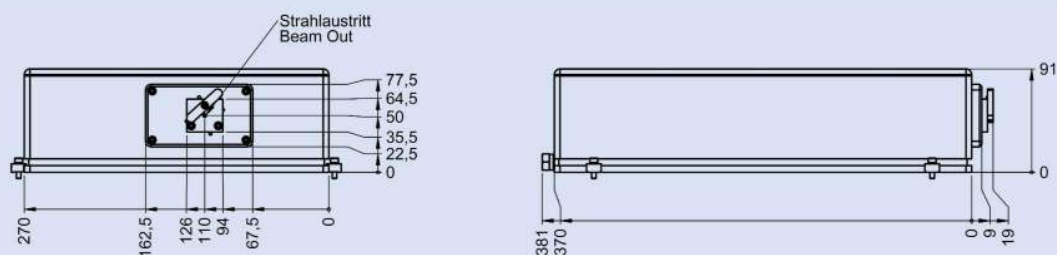
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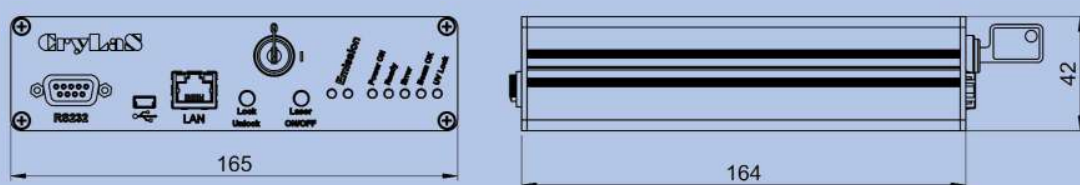
Dimensions

Laser Head:



All dimensions in mm.

Control Unit:



All dimensions in mm.

Laser Safety Labels

FQCW266 laser sources are class 4 / IV lasers according to IEC 60825-1

