



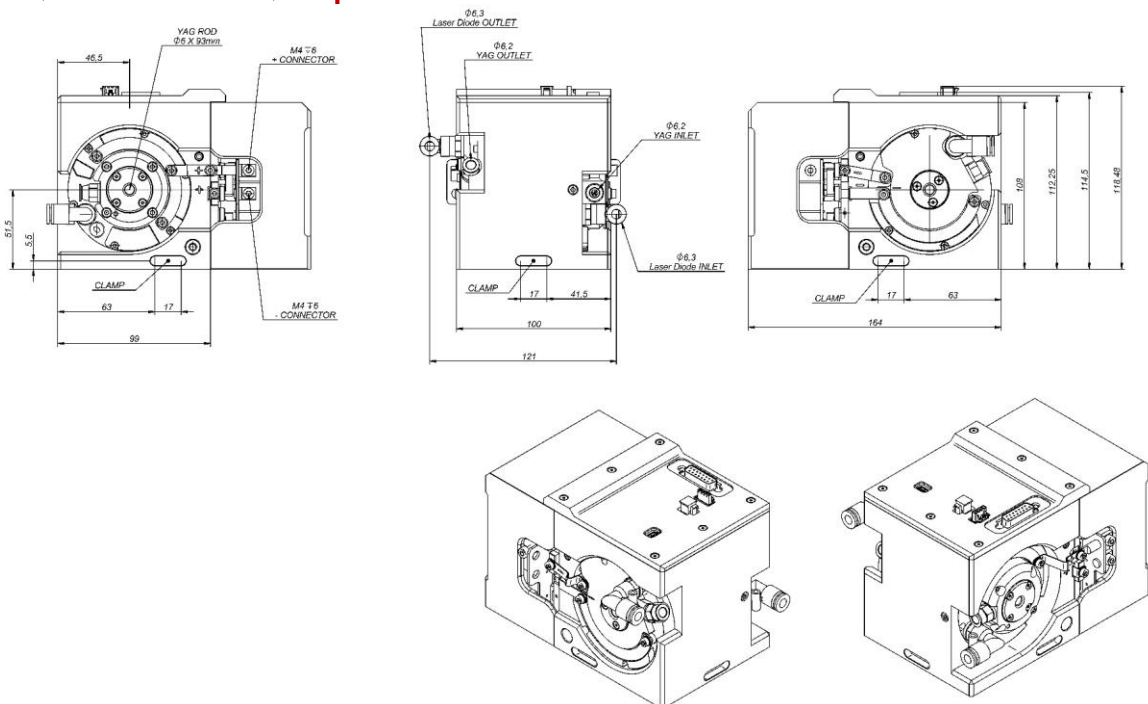
QCW Laser Pumping Source

PH3600-QCW to 5400W-QCW

Features:

- Free rotation of the pumping chamber optimum
- Lensing performance
- High gain uniformity
- Easy software synchronization and control
- Own capacitor bank
- Solder-free clamping technology
- Inside extended lifetime
- No mechanical stress

PH3600-QCW to PH5400-QCW | outline



QCW Laser Pumping Source
PH3600-QCW to PH5400 QCW
Version: 1.0.0.0

Product specification are subject to change without notice.
For complete details, please contact your local MONOCROM
sales representative.

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PH3600-QCW to PH5400-QCW | TECH Specifications

Laser Parameters ^(1,2,3,4)	PH3600-QCW	PH5400-QCW
Type	QCW pumping head	
Wavelength ⁽⁵⁾ [nm]	806 ± 3	
Spectral width [nm]	< 4	
Pump power ^(4,6) [W]	3600	5400
Temperature coefficient [nm/K]	0.27	
Electrical parameter		
Operating current [A]	105	130
Differential slope efficiency [W/A]	0.97	
Voltage @ connectors ⁽⁷⁾ [V]	36	
Optical parameter		
Rod material	YAG or YLF	
Nd doping concentration [%]	0.3 – 1.0	
Rod dimensions, dia. × length [mm × mm]	6 × 93	
Emission wavelength [nm]	depends on host material	
Body		
Coolant flow [l/min]	3	
Coolant pressure [bar]	2 – 3	
Coolant temperature [°C]	20 – 40	
Operating temperature [°C]	non-condensing to 45	
Recommended coolant	90% DI water + 10% ethyleneglycol	
Electrical connections	2× M3 threads	
Water connections, push-in	2× Ø 6 mm	
Laser class product (EN-60825)	4	
Diode lifetime [h]	20000	

1. This is a preliminary specification sheet; validation of specification is in process.
2. If any other requirements are needed, please contact us.
3. Specifications at 20 °C, at the beginning of the lifetime.
4. Specifications are subjected to chips availability.
5. Other wavelengths on request.
6. Expected output power per laser stack. Can varies based on current and temperature.
7. Voltage from the power supply must be higher, as due to high current there will be a voltage drop in the cables.

No mechanical stress

Our patented solder-free technology is used in our diode bars stacks. Thanks to it clamped bars expand and contract freely during the thermal cycles of the pulsed regime avoiding mechanical stress.



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