



MORE LIGHT

JOLD-x-QA-2x12A

Diode laser stack in housing: qcw, passively cooled with tap water

Design 21048xxxxx

Features

- High optical output power up to 780 W for long pulses
- Wavelengths: 760, 808, 940 and 1060 nm
- Small and robust design, light weight (< 60 g)
- Sealed housing
- Cooling with tap water

Applications

- Pumping of solid-state lasers
- Medical applications (e.g. hair removal)

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Specifications (start of life) ¹⁾	JOLD-x-QA-2x12A Design 21048xxxxx				
Operation Mode	qcw				
Typical pulse width duty cycle ²⁾	40 ms 20 %				
Number of bars	24				
Bar pitch	1.2				nm
Center Wavelength at 25 °C	760	808	940	1060	nm
Center Wavelength Variation at 25 °C	10	10	10	10	nm
Pulse energy	68				Ws
Pulse power	1720				W
Average power	344				W
Electro-optical efficiency	22				W
Spot size at exit window	55				%
Typical Fast Axis Divergence 95 %	15 x 26				mm ²
Typical Slow Axis Divergence 95 %	66				°
Operating current (max.)	10				°
Operating voltage (max)	92				A
Threshold current (max.)	30				V
Maximum Operating Voltage	20				A
Slope (min.)	24				W/A
Expected lifetime	> 15				Mshots
Weight					g
Anode, cathode connectors	M3x8 screws for cable terminals				
Operation Conditions	Non-condensing atmosphere, no cleanroom needed				
Cooling					
Flow Rate					l/min
Water Temperature					
Maximum Inlet Pressure					
Max. Pressure Drop					
Water connection					
Water Quality					
Cooling System Materials					

See general user information!

Options on request: mixed wavelengths, other wavelengths (760 ... 1060 nm), fast axis collimation, number of bars, housing modifications

