

Actively Cooled Vertical Stack Diode Laser

Vsilk3-2000



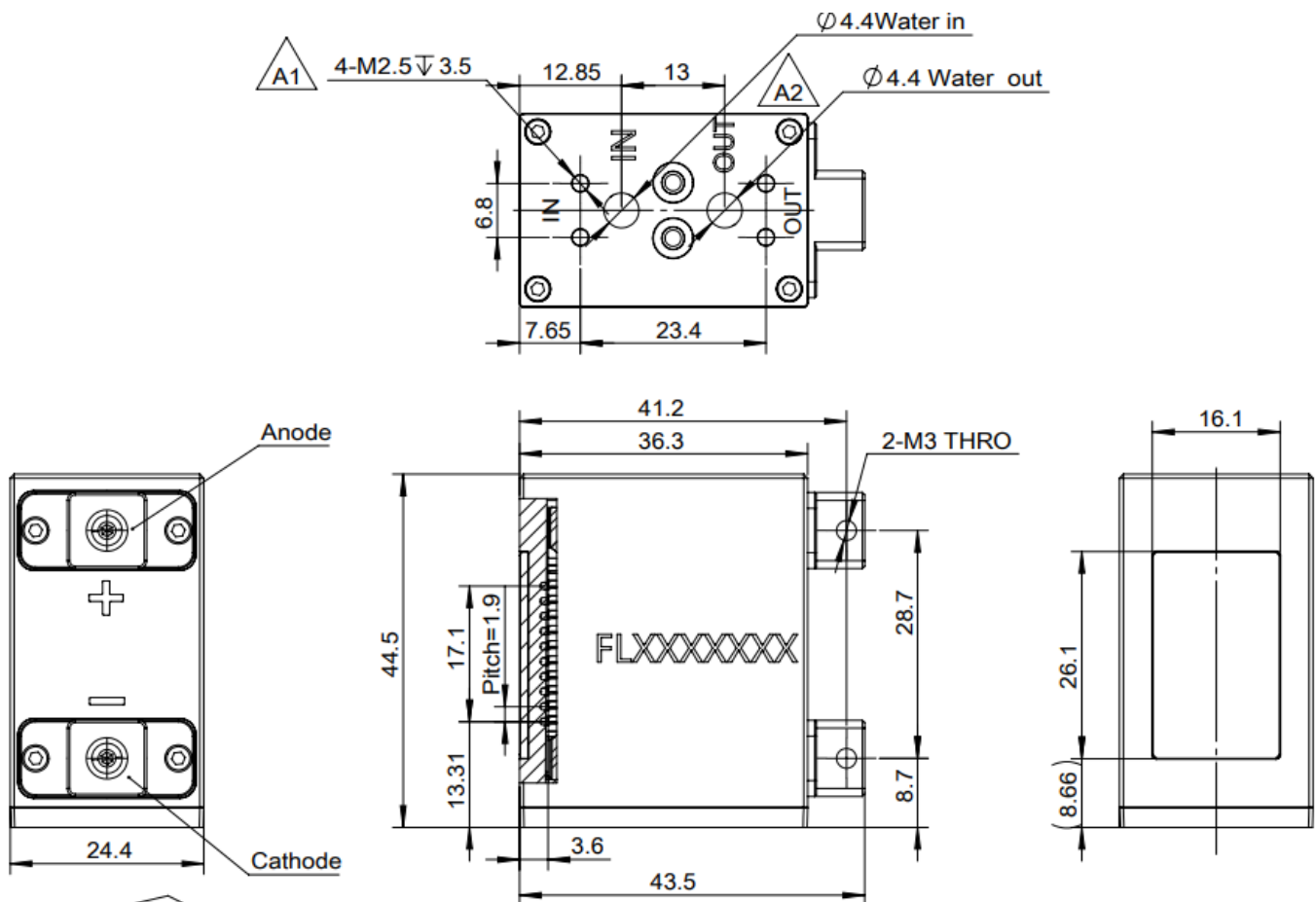
Features

- High effective energy
- High Peak Power
- High reliability
- Compact structure

Applications

- Hair removal

Product Dimensions (mm)



Remark: The structure drawing is for reference only. Please feel free to contact us for any special requirements.

Product Specifications

Product Code

Part No. ¹

(Typical Configuration)

FL-Vsilk3-10x1-2000-808-Y

Optical Data ²	Unit	Value
Centroid Wavelength	nm	808
Wavelength Tolerance	nm	± 15
Output Power ³	W	2000
Pulse Width	ms	20
Duty Cycle	%	20
Number of bars	-	10
Bar to Bar Pitch	mm	1.9
Fast Axis Divergence 95% with FAC	°	8 ~ 10
Slow Axis Divergence 95%	°	12 ~ 14
Emitting Area Size	mm	17.1 × 10
Wavelength Temp. Coefficient	nm/°C	~ 0.32

Electrical Data ²

Operation Current	A	< 178
Threshold Current	A	≤ 20
Operating Voltage	V	≤ 20
Slope Efficiency per Bar	W/A	≥ 1.2
Power Conversion Efficiency	%	≥ 55%
Typical Working Condition	-	2000W@20ms-10Hz 1200W@40ms-10Hz

Miscellaneous Data

Operating Temperature ⁴	°C	22 - 28
Coolant ⁵	-	Purified water with ion exchange resin filter
Coolant Flow Rate	L/min	3-3.6
Coolant Pressure	MPa	~0.35

¹ Part No. = Brand Code - Series - Power - Centroid Wavelength.

² Data at 25°C unless otherwise stated.

³ Reduced lifetime if used above nominal operating conditions.

⁴ A non-condensing environment is required for storage and operation below ambient dew level.

⁵ Coolant and filter need to be replaced every three months.

