

# Conduction Cooled Vertical Stack Diode Laser

## Vsilk2400



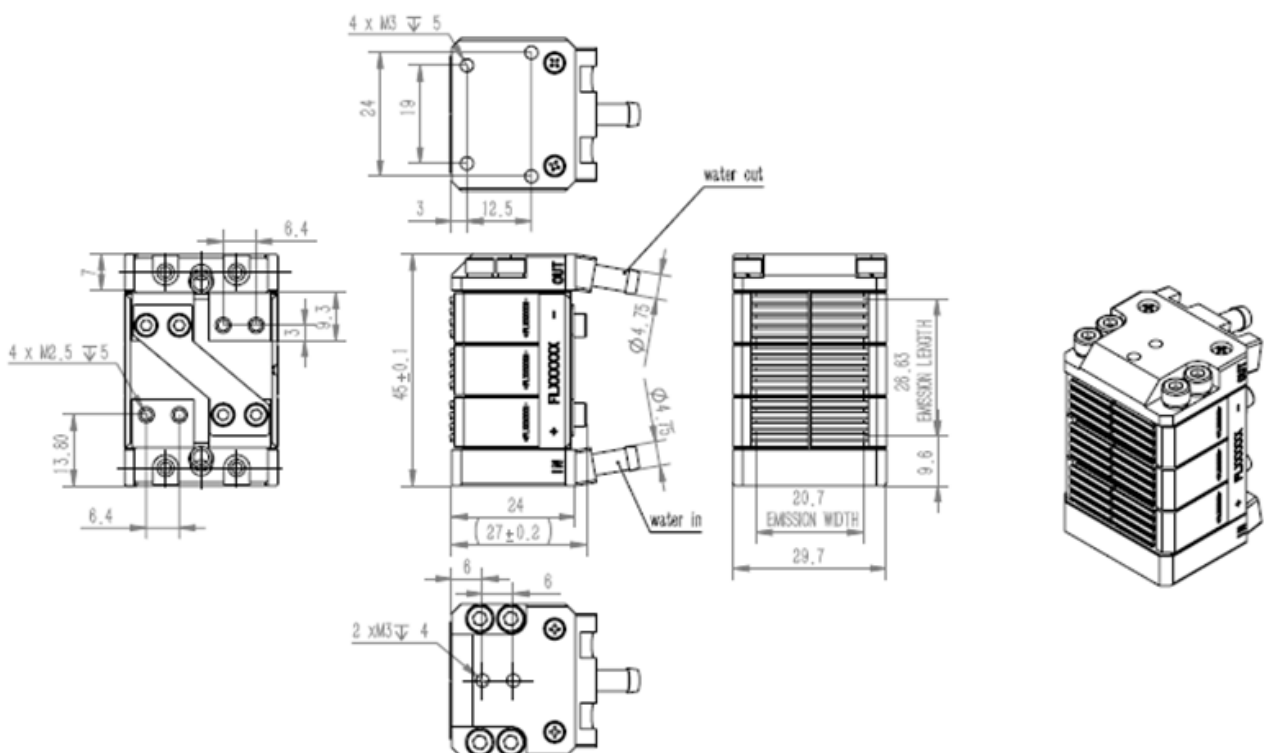
### Features

- AuSn bonding
- Module design
- High power
- Long life
- High reliability

### 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

HAR000001

### Part No. <sup>1</sup>

FL-AA10-4×3×2-2400-808-Y

Optical Data <sup>2</sup>	Unit	Value
Centroid Wavelength	nm	808
Wavelength Tolerance	nm	± 15
Output Power per bar <sup>3</sup>	W	100
Fast Axis Divergence	degree	8 ~ 10
Slow Axis Divergence	degree	12 ~ 14
Polarization Mode	-	TE
Wavelength Temp. Coefficient	nm/°C	~ 0.28

### Electrical Data <sup>2</sup>

Operation Current	A	≤ 100
Threshold Current	A	≤ 25
Operating Voltage	V	≤ 2
Slope Efficiency	W/A	≥ 1.1
Power Conversion Efficiency	%	≥ 48
Max. Pulse Width	ms	100
Max. Duty Cycle	%	20%

### Miscellaneous Data <sup>2</sup>

Operating Temperature <sup>4</sup>	°C	22 ~ 28
Coolant	-	Distilled water or pure water
Flow Rate	L/min	2 ~ 4
Max Inlet Pressure	kPa	380

<sup>1</sup>Part No. = Brand Code - Series - Num. of bars- Power - Centroid Wavelength - Y (with FAC).

<sup>2</sup>Data at 25°C unless otherwise stated.

<sup>3</sup>Reduced lifetime if used above nominal operating conditions.

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



**Recommended Operation Condition**

FL-AA10-4X3X2-2400-808-Y Power Table													
Power(W)		Frequency(Hz)										Iop	
		1	2	3	4	5	6	7	8	9	10	~100A	
Pulse(ms)	10	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	~70A
	20	2400	2400	2400	2400	2400	2400	NA	NA	NA	NA		
	30	2400	2400	2400	NA	NA	NA	NA	NA	NA	NA		
	40	2400	2400	NA	NA	NA	NA	NA	NA	NA	NA		
	50	1440	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	60	1440	NA	NA	NA	NA	NA	NA	NA	NA	NA	Cooling water: T =25±3°C; Flow Rate 2~4L/min	
	70	1440	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	80	1440	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	90	1440	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	100	1440	NA	NA	NA	NA	NA	NA	NA	NA	NA		