

# Micro-Channel Water Cooled Vertical Stack Diode Laser HVS84



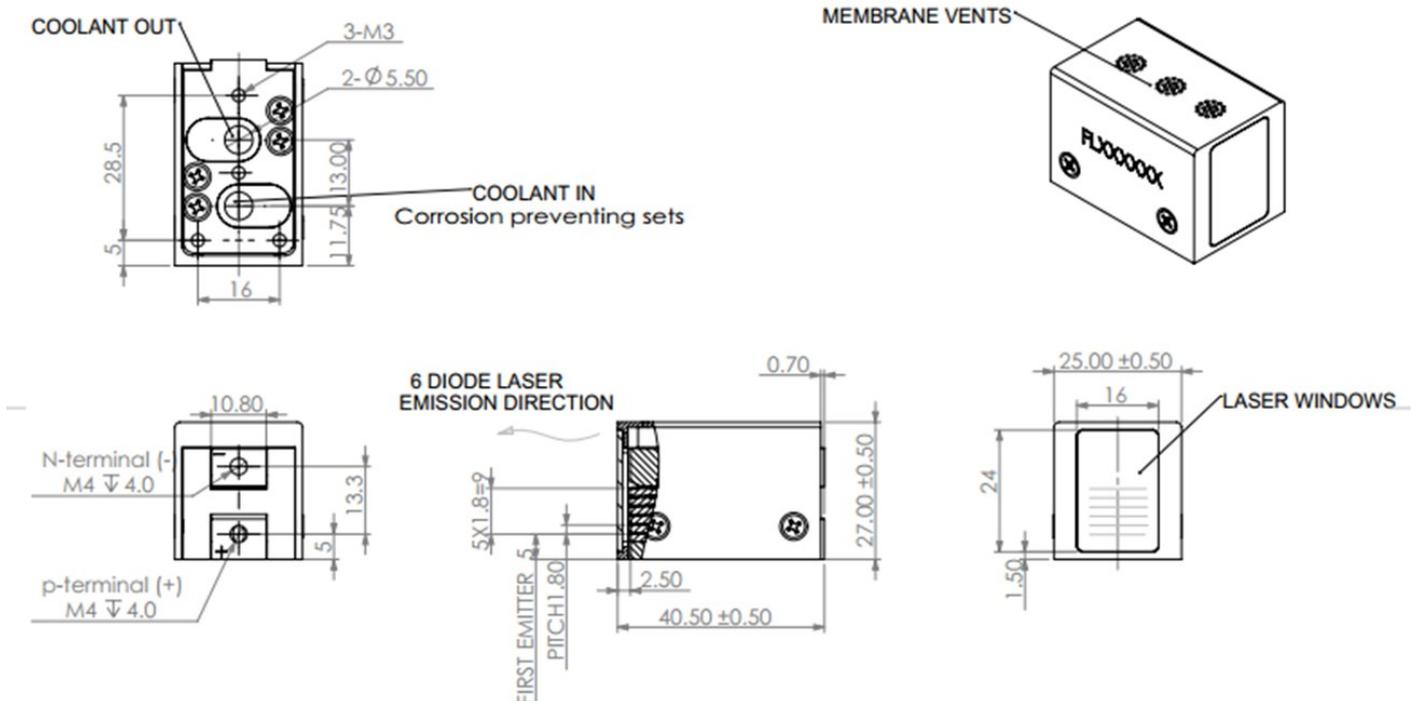
## Features

- AuSn bonding
- High power
- Long life

## 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	HAR000042	HAR000044	HAR000048	HAR000055
Part No. <sup>1</sup>	FL-HVS84- 6×1(3×1)-300-808	FL-HVS84- 6×1(4×1)-400-808	FL-HVS84- 6×1(5×1)-500-808	FL-HVS84- 6×1-600-808

Optical Data <sup>2</sup>	Unit	Value			
Centroid Wavelength	nm	808	808	808	808
Wavelength Tolerance	nm	± 15	± 15	± 15	± 15
Output Power per bar <sup>3</sup>	W	100	100	100	100
Number of bars	-	3	4	5	6
Fast Axis Divergence (FWHM)	degree	35	35	35	35
Slow Axis Divergence (FWHM)	degree	8	8	8	8
Polarization Mode	-	TE	TE	TE	TE
Wavelength Temp. Coefficient	nm/°C	~ 0.28	~ 0.28	~ 0.28	~ 0.28

Electrical Data <sup>2</sup>		Value			
Operation Current	A	≤ 110	≤ 110	≤ 110	≤ 110
Threshold Current	A	< 12	< 12	< 12	< 12
Operating Voltage	V	≤ 2	≤ 2	≤ 2	≤ 2
Slope Efficiency	W/A	≥ 1.1	≥ 1.1	≥ 1.1	≥ 1.1
Power Conversion Efficiency	%	≥ 50	≥ 50	≥ 50	≥ 50

Miscellaneous Data <sup>2</sup>		Value			
Operating Temperature <sup>4</sup>	°C	20 ~ 30	20 ~ 30	20 ~ 30	20 ~ 30
Coolant	-	Deionized water	Deionized water	Deionized water	Deionized water
Flow Rate per bar	L/min	0.2 ~ 0.4	0.2 ~ 0.4	0.2 ~ 0.4	0.2 ~ 0.4
Max Inlet Pressure	kPa	380	380	380	380
Conductivity	µs/cm	≤ 5	≤ 5	≤ 5	≤ 5

<sup>1</sup>Part No. = Brand Code - Series - Num. of bars- Power - Centroid Wavelength.

<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.

