



Vshiny™ Micro-Channel Water Cooled Vertical Stack Diode Laser

HVS84



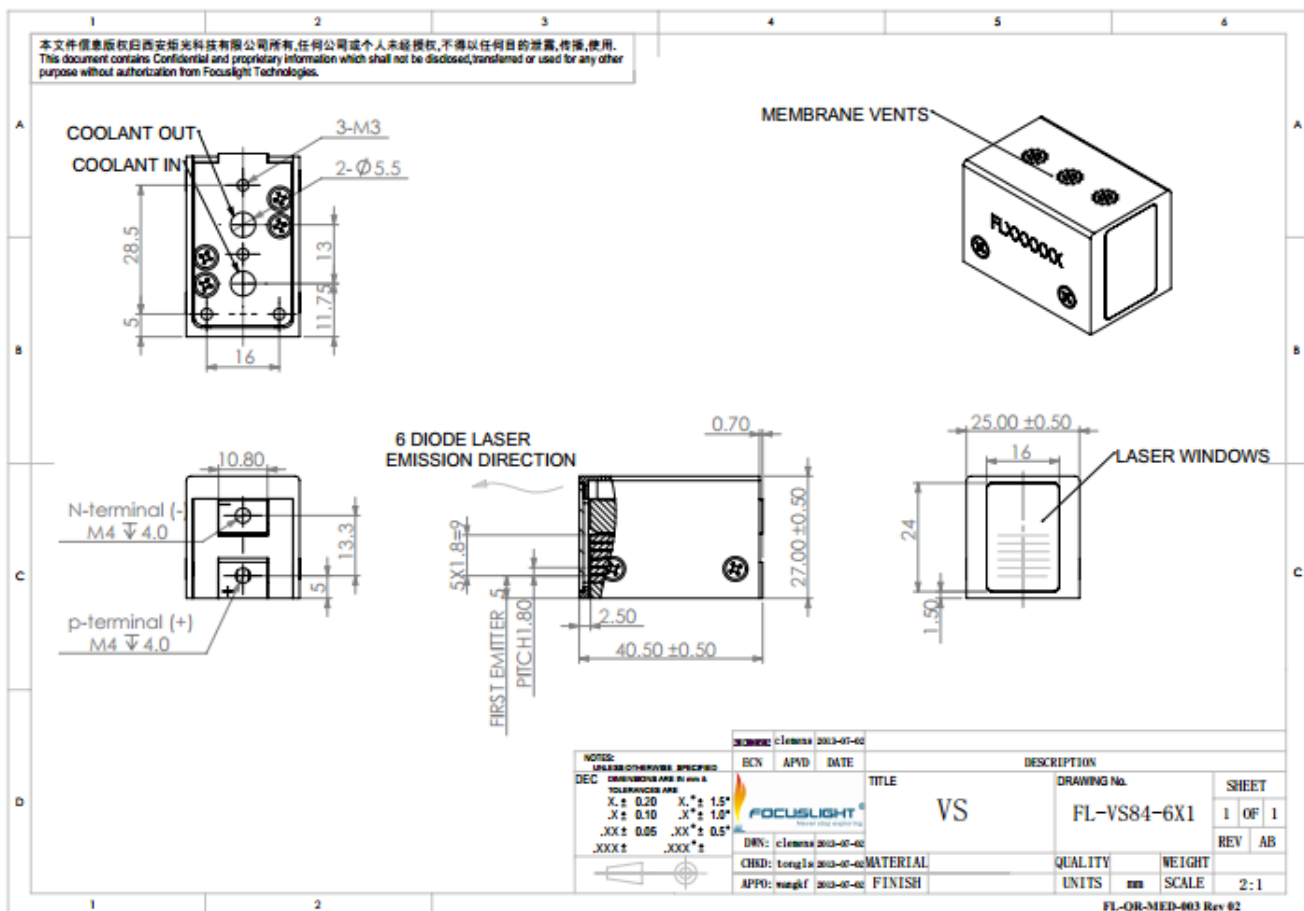
Features

- AuSn solder
- Uniform beam profile
- High power
- Long lifetime

Applications

- Hair Removal

Device Dimension (mm)



1 This structure drawing is only for reference. For any other special requirement, please feel free to contact us.

2 Drawings for 1-6 bars are available. Please contact Focuslight for details.

Specification

Module Type ¹	Units	FL-HVS84-6X1 (4X1) -400-808
Optical ^{3,6}		
Center Wavelength λ	nm	808
Wavelength Tolerance	nm	± 15
Output Power per Bar ²	W	100
Max. Pulse Width	ms	400
Max. Duty Cycle	%	50
Number of bars	#	4
Bar-to-Bar Spacing	mm	1.8
Polarization Mode	-	TE
Wavelength Temp. Coefficient	nm/°C	~ 0.28
Electrical Parameters ^{3,5}		
Operating Current I_{op}	A	≤ 110
Threshold Current I_{th}	A	≤ 25
Operating Voltage V_{op} /bar	V	≤ 2
Slope Efficiency	W/A	≥ 1.1
Power Conversion Efficiency	%	≥ 50
Thermal Parameters		
Operating Temperature ⁶	°C	25 \pm 5
Storage Temperature ⁴	°C	0~55
Coolant	-	Deionized water
Flow Rate per bar	L/min	0.2~0.4
Max Inlet Pressure	kPa	380
Conductivity	$\mu s \cdot cm^{-1}$	<5

¹Explanation for the name of Module Type: FL (abbreviation of Focuslight) –HVSxx (structure code) –N (number of bars) –X (output power) -# (center wavelength)

²Reduced lifetime if used above nominal operating conditions.

³Data at 25°C, unless otherwise stated.

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

⁵It is recommended to use cooling water machine for laser cooling, Refrigerating capacity $\geq 1.5 \cdot PPK \cdot (DC) \cdot \max$

⁶If there are any other requirements, please contact us



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