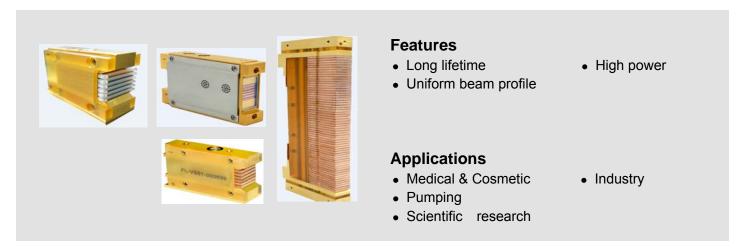


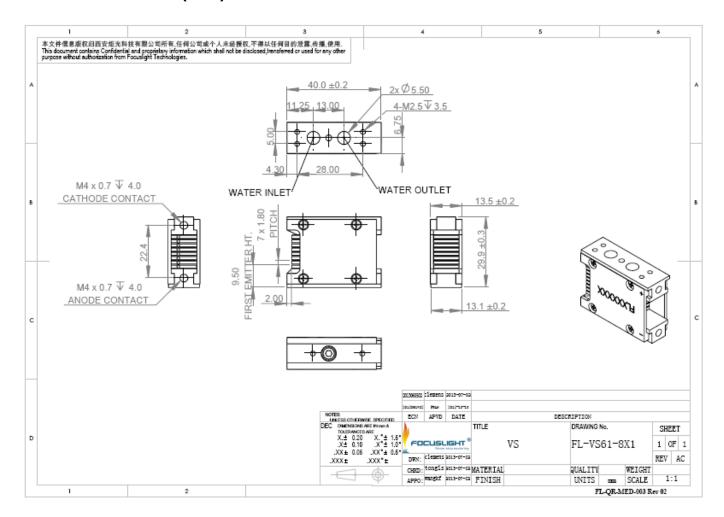
FocusEngine[™]

Micro-Channel Water Cooled Vertical Stack Diode Laser (CW)

MCC



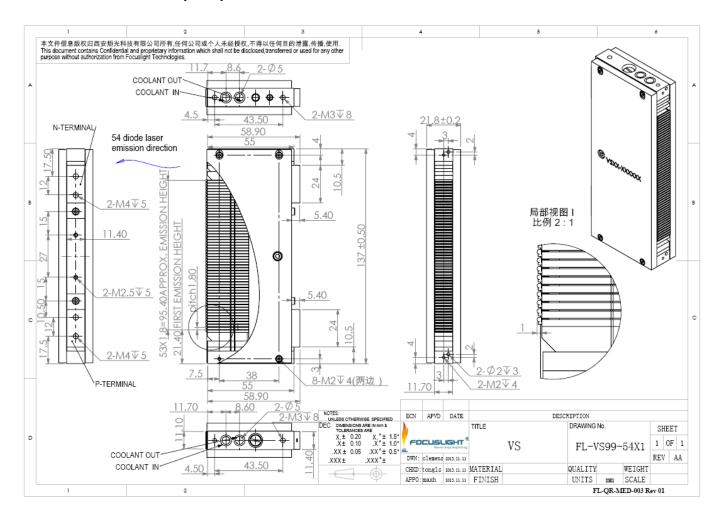
Device Dimension (mm)



- 1 This structure drawing is only for reference. More structure drawings can be found below the datasheet. For any other special requirement, please feel free to contact us.
- 2 Drawings for 1-12 bars are available. Please contact Focuslight for details.



Device Dimension (mm)



- 1 This structure drawing is only for reference. More structure drawings can be found below the datasheet. For any other special requirement, please feel free to contact us.
- 2 Drawings for 1-60 bars are available. Please contact Focuslight for details.



Specification

Module Type ¹	Units	FL-VS**-N- ##-808	FL-VS**-N- ##-808	FL-VS**-N- ##-808	FL-VS**-N- ##-9XX	FL-VS**-N- ##-9xx
Optical ²						
Center Wavelength λ	nm	808	808	808	9XX	9XX
Wavelength Tolerance	nm	±3	±5	±10	±5	±5
Output Power per Bar ³	W	100	100	100	100	120
Number of bars	#	1~60	1~60	1~60	1~60	1~40
Bar-to-Bar Spacing	mm	1.8	1.8	1.8	1.8	1.8
Spectral Width FWHM	nm	≪3	≪3	≪3	≪4	≪4
Spectral Width FW90%E	nm	≪6	≪6	≪6	≪8	≪8
Fast Axis Divergence(95%) 4,9	degree	70	70	70	55	55
Slow Axis Divergence (95%) ⁵	degree	12	12	12	12	12
Polarization Mode	-	TE/TM	TE	TE/TM	TE	TE
Wavelength Temp. Coefficient	nm/°C	~0.28	~0.28	~0.28	~0.28	~0.28
Electrical Parameters ³						
Operating Current I _{op}	Α	≤120	≤120	≤120	≤110	≤120
Threshold Current Ith	Α	≪25	≤ 25	≪25	≤15	≪20
Operating Voltage V _{op} ⁶	V	≤2.0	≪2.0	≤2.0	≤1.8	≤1.8
Slope Efficiency ⁶	W/A	≥1.1	≥1.1	≥1.1	≥1.1	≥1.1
Power Conversion Efficiency	%	≽48	≽48	≽48	≽60	≽60
Thermal Parameters						
Operating Temperature ⁷	$^{\circ}$ C	20~30	20~30	20~30	20~30	20~30
Storage Temperature ⁸	$^{\circ}\!\mathbb{C}$	0~55	0~55	0~55	0~55	0~55
Coolant	-	Deionized Wate	r Deionized Water	Deionized Water	Deionized Water	Deionized Water
Flow Rate/Bar	L/min	0.3~0.4	0.3~0.4	0.3~0.4	0.3~0.4	0.3-0.4
Max Inlet Pressure	kPa	380	380	380	380	380
Conductivity	µs•cm⁻¹	<5	<5	<5	<5	<5

¹Explanation for the name of Module Type: FL(abbreviation of Focuslight) - VS**(structure code) -N(Number of Bars) -##(Power) -808(center wavelength).

Please feel free to contact with Focuslight if you have any requirement.



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²Data at 25°C temperature, unless otherwise stated.

³Standard power configuration : 60W/Bar, 80W/Bar, 100 W/Bar

⁴For fast axis collimation: divergence <0.5°.

⁵Fill factor <30%, slow axis collimation ≤5°; fast and slow axis collimation at the same time is available.

⁶Parameters for single Bar

⁷ If exceed operating temperature, the device lifetime will be impacted, which will cause wavelength drift

⁸ Please avoid use and storage in the condensation environment

⁹ For smile requirements, please contact us.