

# OL(S)-16 Series, Water-Cooled, Housed Vertical Stacks

## Features

- Low thermal resistance CW and QCW operation
- Housing design against dust and water condensation
- Up to 60 bars vertically structure upon request
- For beauty and pumping application
- Typical 600W-1600W CW stack for hair removal application

## Specification

Product	VS-MI-13~16-40/50/60/100-SW/TP-OL (S) <sup>4</sup>				Unit
Operation Mode	CW/QCW				
Power per sub-mounts	40W	50W	60W	100W	W
Central wavelength <sup>3</sup> at 25°C <sup>1</sup>	808 ±3/ 755±10/ 1064±10/ Mix				nm
Number of sub-mounts in one stack <sup>2</sup>	13 to 16				/
Typical pitch per bar <sup>2</sup>	1.8				mm
Fast Axis Divergence (90%)	<70				degrees
Slow Axis Divergence (90%)	<10				degrees
Spectral Width (FWHM)	<3				nm
Wavelength Temp. Coefficient	~0.28				nm/°C
Operating current	<40	<50	<65	<100	A
Typical Threshold current	<7	<7	<12	<15	A
Operating Voltage per bar	<2				V
Slope Efficiency per Bar	>1.1				W/A
Operating Temperature Range	+20 to 30				°C
Storage Temperature Range	0 to 55				°C
Operation Condition	non-condensing atmosphere, cleaning room				
Expected lifetime	10000				hours
<b>Cooling requirement</b>					
Flow rate	1.5L/min +-10%				
Water Temperature	25+-3°C				
Water Quality	Deionized 2-10 µs/cm, mixed bed ion exchanger,particle filter<25µm				
cooling system	Do not use any material that combination with copper would form galvanic elements				

## Notes:

- <sup>1</sup> Data at 25°C water temperature, unless otherwise stated.
- <sup>2</sup> Others available upon request.
- <sup>3</sup> wavelength can be mix upon request
- <sup>4</sup>See the drawing for specific models. Others available upon request.

### Package Dimension

