

# Conduction Cooled Vertical Stack Diode Laser

## Vsilk600



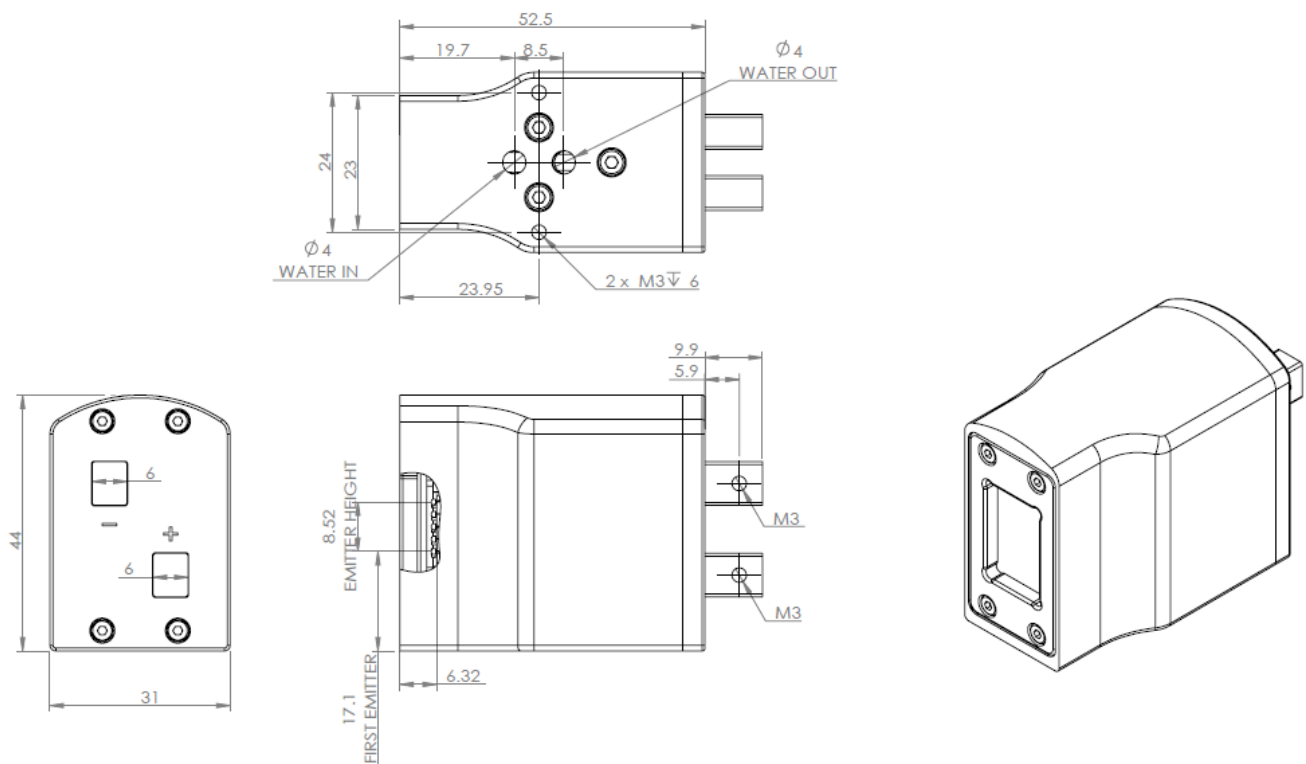
### Features

- Focused spot
- Micro-optics design
- High peak power, short pulse
- Long life
- High reliability
- IP65

### 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

<b>Product Code</b>	<b>HAR000008</b>
Part No. <sup>1</sup>	FL-Vsilk-600-808

Optical Data <sup>2</sup>	Unit	Value
Centroid Wavelength	nm	808
Wavelength Tolerance	nm	± 15
Output Power <sup>3</sup>	W	600@10ms
Number of bars	-	5
Wavelength Temp. Coefficient	nm/°C	~ 0.28

Electrical Data <sup>2</sup>		
Operation Current	A	≤ 110
Threshold Current	A	≤ 25
Operating Voltage	V	≤ 10
Slope Efficiency	W/A	≥ 1
Power Conversion Efficiency	%	≥ 48
Max. Pulse Width	ms	100
Max. Duty Cycle	%	20%@500W

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 - 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.



**Recommended Operation Condition**

FL-Vsilk-600-808 Power Table													
Power(W)		Frequency(Hz)										Iop	
		1	2	3	4	5	6	7	8	9	10		
Pulse(ms)	10	600	600	600	600	600	600	600	600	600	600	600	~110A
	20	500	500	500	500	500	500	500	500	500	500	~95A	
	25	500	500	500	500	NA	NA	NA	NA	NA	NA	NA	~70A
	30	500	500	500	NA	NA	NA	NA	NA	NA	NA	NA	
	40	500	500	500	NA	NA	NA	NA	NA	NA	NA	NA	Cooling water T =25±3℃;  Flow Rate 2~4L/min;
	50	500	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	60	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	100	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	