Conduction Cooled Vertical Stack Diode Laser

Vsilk 2 Pro-3000
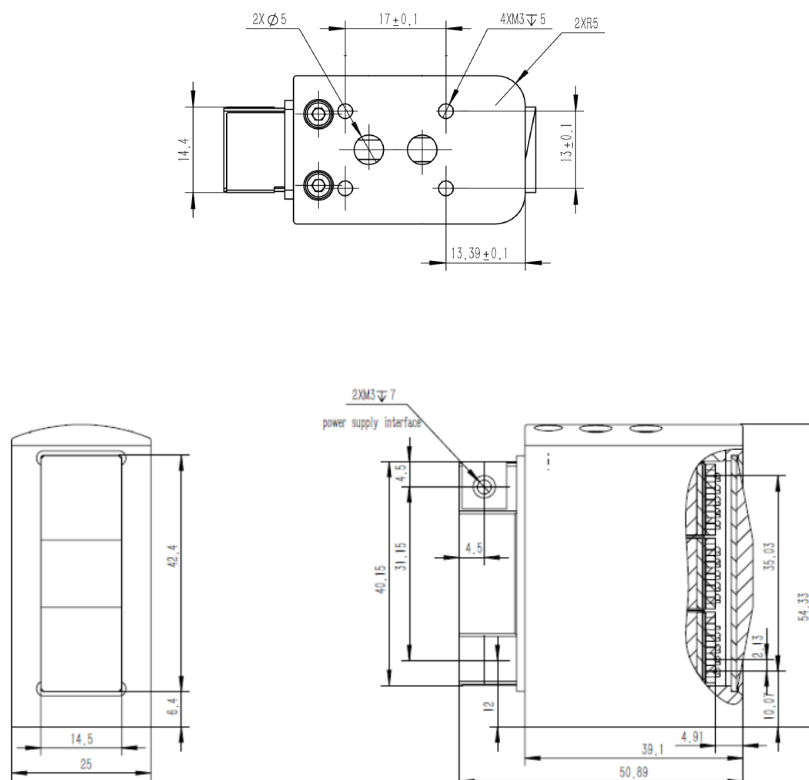
Features

- High power 200W/bar
- High beam quality
- High reliability

Applications

- Hair removal

Product Dimensions (mm)

Remark: The structure drawing is for reference only. Please feel free to contact us for any special requirements.

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Product Specifications

Product Code		**HAR300159**
Part No. [1]		FL-Vsilk2Pro-3000-808

Optical Data [2]	Unit	Value
Centroid Wavelength	nm	808
Wavelength Tolerance	nm	± 15
Output Power [3]	W	3000
Number of bars	-	15
Bar to Bar Pitch	mm	2.1
Fast Axis Divergence 95%	°	5 ~ 7
Slow Axis Divergence 95%	°	12 ~ 14
Spot Size [4]	mm	12 × 36
Wavelength Temp. Coefficient	nm/°C	~ 0.28

Electrical Data [2]	Unit	Value
Operation Current	A	≤ 185
Threshold Current	A	≤ 30
Operating Voltage	V	≤ 30
Slope Efficiency per bar	W/A	≥ 1.1
Power Conversion Efficiency	%	≥ 48
Max. Pulse Width	ms	400
Max. Duty Cycle	%	30

Miscellaneous Data	Unit	Value
Operating Temperature [5]	°C	22 ~ 28
Coolant	-	Distilled water or pure water
Flow Rate	L/min	3 ~ 4

[1] Part No. = Brand Code - Series - Power - Centroid Wavelength .

[2] Data at 25°C unless otherwise stated.

[3] Reduced lifetime if used above nominal operating conditions.

[4] At the distance of 32mm from light emitting surface.

[5] A non-condensing environment is required for storage and operation below ambient dew level.

! DANGER !
VISIBLE AND INVISIBLE LASER RADIATION
AVOID EYE OR SKIN EXPOSURE TO
DIRECT OR SCATTERED RADIATION !
CLASS IV LASER PRODUCT

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Recommended Operation Condition

Vsilk 2 Pro-3000-808 Energy Table

Energy(J) / Pulse width (ms)	Frequency(Hz) 1	2	3	4	5	6	7	8	9	10	20
5	15	15	15	15	15	15	15	15	15	15	15
10	30	30	30	30	30	30	30	30	30	30	
15	39	39	39	39	39	39	39	39	39	39	
20	52	52	52	52	52	52	52	45	45	45	
30	54	54	54	54	54	54	54	54	54	54	
40	72	72	72	72	72	72	72				
50	87	87	87	87	87	87					
60	90	90	90	90	90						
70	105	105	105	105							
80	120	120	120								
90	135	135									
100	150										
200	150										
300	225										
400	300										

Iop legend:

Color	Value
green	<185A
blue	<165A
yellow	<145A
orange	<115A
gray	<100A
purple	<60A

Water Temperature: T=25±3°C

Flow Rate: 3~4L/min