



MDL-PS-420/1-50mW



PICOSECOND PULSED VIOLET
DIODE LASER AT 420nm

It features integrated electronics, repetition rate 100kHz to 80MHz, synchronized signal output. Fast ON/ OFF/ multiplexing capability. Suitable for fluorescence excitation, time resolve spectrum, highly sensitive absorption spectroscopy, etc.

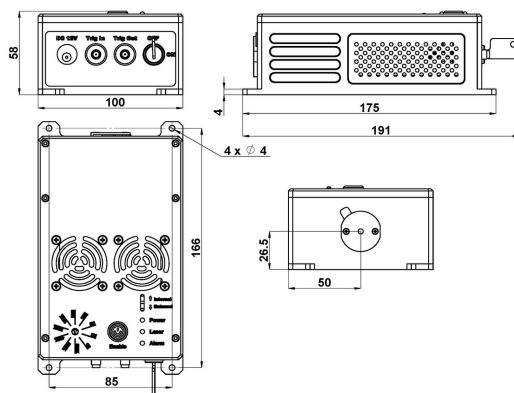


SPECIFICATIONS

Central wavelength (nm)	420±5	
Operating mode	Pulsed	
Peak power (mW) ¹	1-50	
Power stability (rms, 4 hours ± 3°C)	<3%, <2%, <1%	
Pulse width (ps)	100-1000	
Transverse mode	Near TEM ₀₀	
Rep. rate	100kHz-20MHz ²	20MHz-80MHz ³
Beam diameter at the aperture (1/e ² , mm)	~1.2	
Beam divergence, full angle (mrad)	~1.0	
Warm-up time (minutes)	<5	
Cooled method	Air cooled	
Beam height from base plate (mm)	26.5	
Operating temperature (°C)	10-35	
Operating voltage (VDC)	12V/3.34A	
Expected lifetime (hours)	>10000	

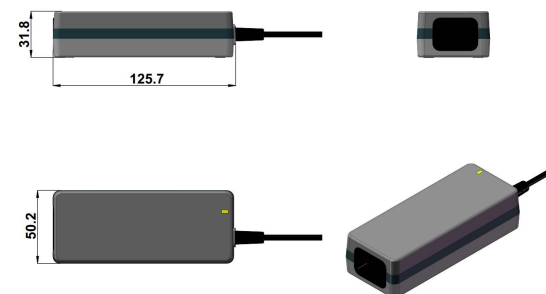


LASER HEAD (DRIVER Integrated)



191 (L) × 100 (W) × 58 (H) mm³, 1.2kg

POWER SUPPLY (100-240VAC) optional



125.7 (L) × 50.2 (W) × 31.8 (H) mm³, 0.3kg

1 Any power level can be selected in this range.

2 Both internal and external triggers are acceptable. Internal trigger frequency can be set with up to 10 fixed value between 100kHz-20MHz.

3 External trigger frequency can be selected in this range.