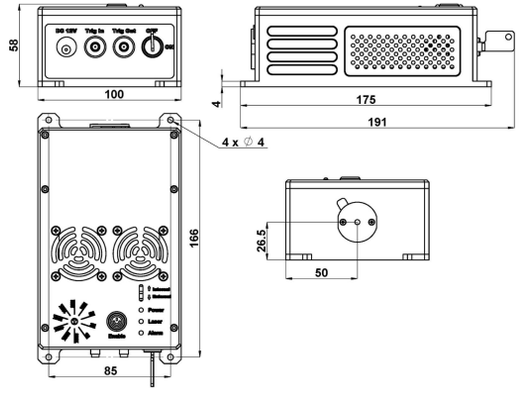
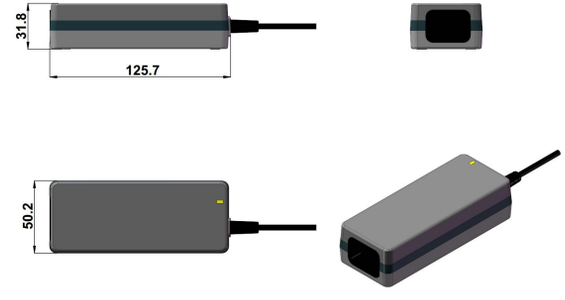
MDL-PS-637/1-50mW

PICOSECOND PULSED RED DIODE LASER AT 637nm

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)	637±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)	POWER SUPPLY (100-240VAC) optional
	
191 (L)×100 (W) ×58 (H) mm^3, 1.2kg	125.7 (L) ×50.2 (W) ×31.8 (H) mm^3, 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.

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