MDL-III-685L/1-50mW

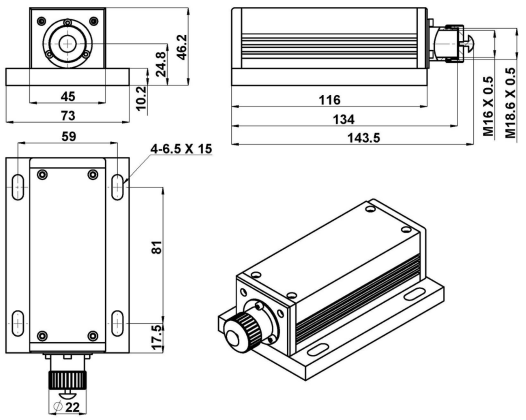
RED DIODE LASER AT 685nm

It features ultra compact design, long lifetime, cost-effectiveness and easy operation. They are used in medical imaging, flow cytometry, DNA sequencing, etc.

SPECIFICATIONS

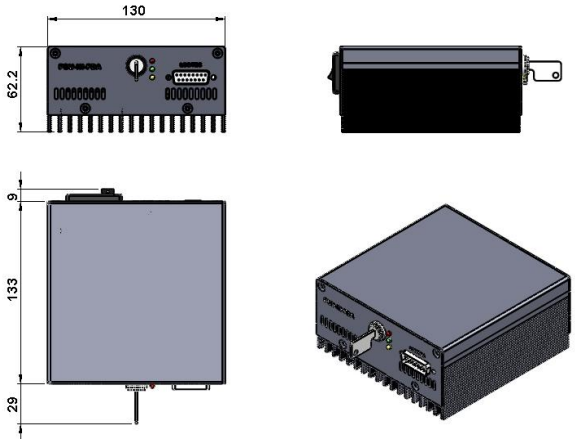
Central wavelength (nm)	685±5
Operating mode	CW
Output power (mW)[1]	1-50
Power stability (rms, 4 hours ± 3°C)	<2%, <1%, <0.5%
Transverse mode	Near TEM_{00}
M^2	<1.5
Beam diameter at the aperture ($1/e^2$, mm)	~3.5
Beam divergence, full angle (mrad)	<1.0
Polarization ratio	>50:1, (>100:1 optional) Horizontal±5 degree (Vertical optional)
Warm-up time (minutes)	<5
Cooled method	Conduction
Beam height from base plate (mm)	24.8
Operating temperature (°C)	10-35
Power supply (100-240VAC)	PSU-III-FDA/PSU-III-LED/PSU-A-D/PSU-III-OEM
Modulation option	DC-1kHz, 1kHz-10kHz, 10kHz-30kHz, 30kHz-100kHz optional; TTL and Analog optional
Expected lifetime (hours)	>10000

LASER HEAD



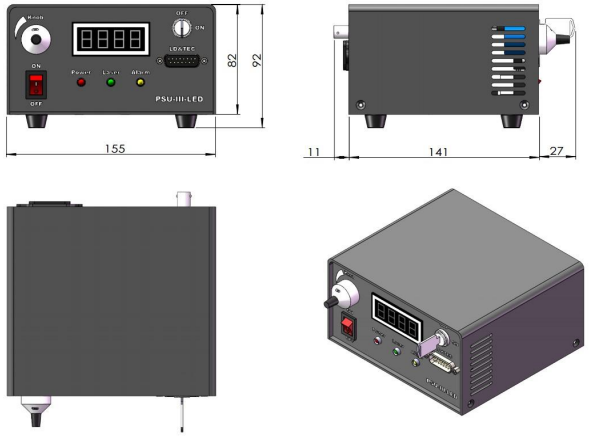
143.5 (L) ×73 (W) ×46. 2 (H) mm³, 0.7kg

POWER SUPPLY (PSU-III-FDA)[2]



171 (L) ×130 (W) ×62.2 (H) mm³, 1.2kg

POWER SUPPLY (PSU-III-LED)[3]



179 (L) ×155 (W) ×92 (H) mm³, 1.5kg

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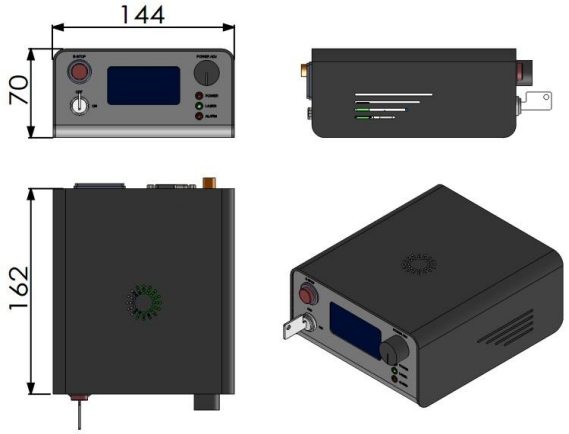
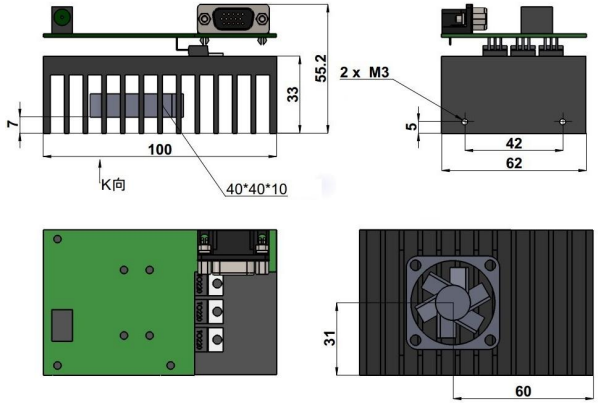
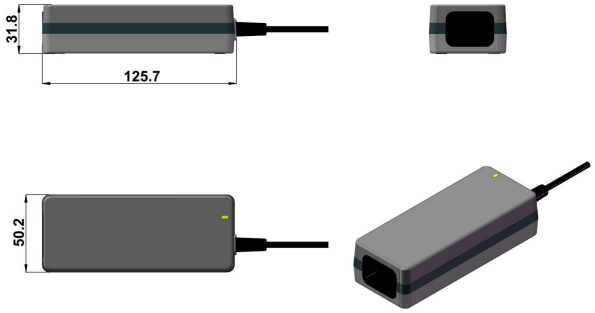
POWER SUPPLY (PSU-A-D)[4]	DRIVER (PSU-III-OEM)[2]	POWER SUPPLY (100-240VAC) optional
		
162 (L) ×144 (W) ×70 (H) mm³, 1.0kg	**100 (L) ×62 (W) ×55.2 (H) mm³, 0.5kg**	**125.7 (L) ×50.2 (W) ×31.8 (H) mm³, 0.3kg**

1 Any power level can be selected in this range.

2 Fixed output power; Modulation up to 30kHz.

3 Output power adjustable 10-100%; RS232 control optional; Modulation up to 30kHz.

4 Output power adjustable 10-100%; RS232 control optional; Modulation up to 100kHz.