MLL-III-1683DFB-SM/1-5mW



LOW NOISE INFRARED DIODE LASER AT 1683nm

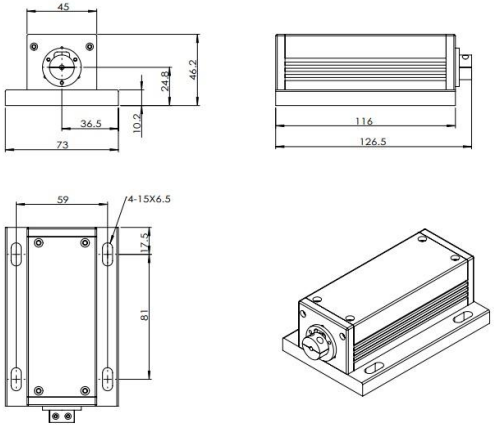
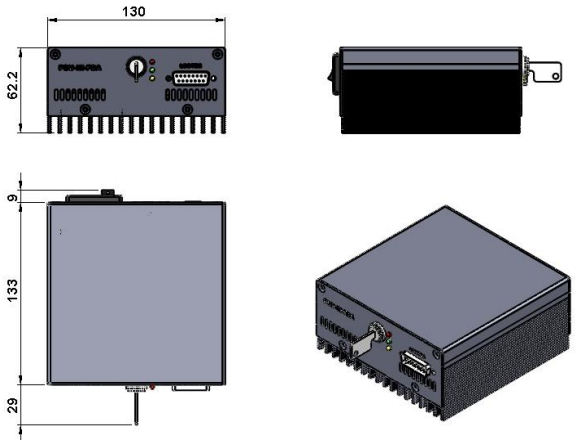
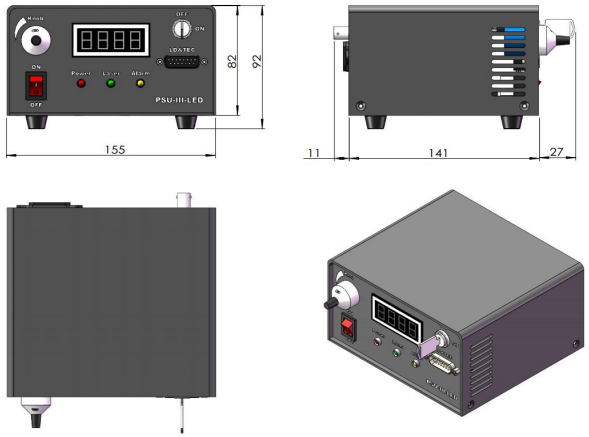
It features ultra compact design, long lifetime, cost-effectiveness and easy operation. They are used in measurement, communication, spectrum analysis, etc.

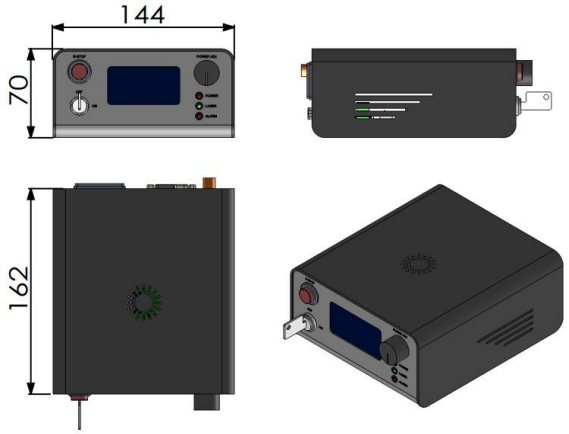
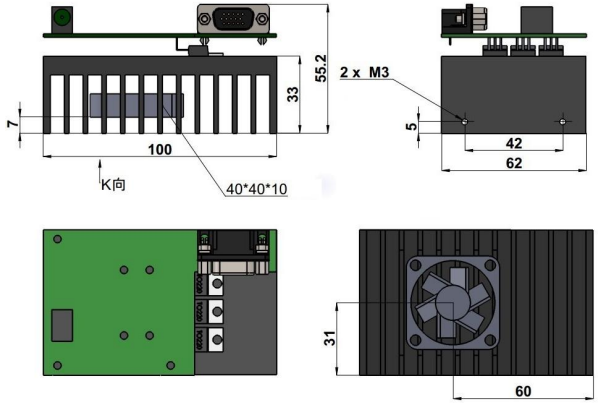
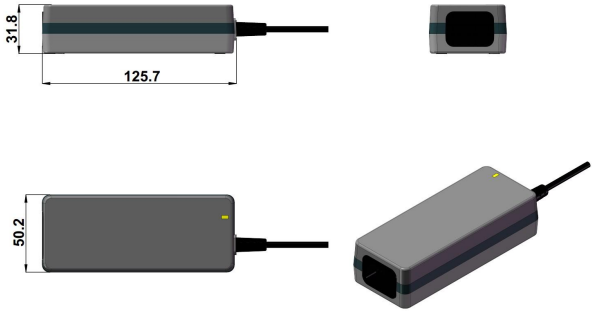
SPECIFICATIONS

Central wavelength (nm)	1683±2
Operating mode	CW
Output power after fiber (mW)[1]	1-5
Power stability (rms, 4 hours ± 3°C)	<2%, <1%, <0.5%
Noise of amplitude (rms, 20Hz-20MHz)	<1%, <0.5%
Fiber type	SM fiber, PM fiber optional
Fiber Core diameter	4-9μm, 0.12NA
Fiber connector	FC/PC, FC/APC optional
Fiber length[2]	1m
Fiber jacket	Metal, PVC optional
Transverse mode	TEM_{00}
Ellipticity	>0.95
M^2 after fiber	~1.1
Warm-up time (minutes)	<5
Cooled method	Conduction
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	POWER SUPPLY (PSU-III-FDA)[3]	POWER SUPPLY (PSU-III-LED)[4]
		
126.5 (L) ×73 (W) ×46. 2 (H) mm³, 0.7kg	171 (L) ×130 (W) ×62.2 (H) mm³, 1.2kg	179 (L) ×155 (W) ×92 (H) mm³, 1.5kg

POWER SUPPLY (PSU-A-D)[5]	DRIVER (PSU-III-OEM)[3]	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 Other lengths are available on request.

3 Fixed output power; Modulation up to 30kHz.

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

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