LASERMATE GROUP, INC.
The Friend of Lasers

Model No. RMLW-635-XFYP2Q
635nm RED DIODE LASER UP TO >6W

The RMLW-series 635 nm red diode laser is constructed with features of high stability, high power, FDA compliance, ultra-compactness, long lifetime, and easy operation. It is widely used in measurement, spectrum analysis, laser lighting show, and many other applications. ***In addition, fiber coupled RMLW-series 635nm diode lasers with FC or SMA905 connector are available upon request.***

SPECIFICATIONS

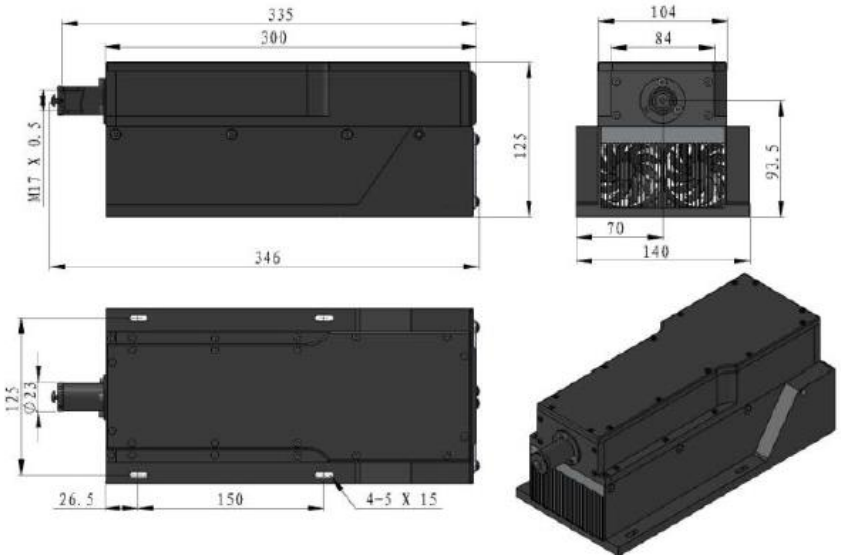
Model No.	**RMLW-635-XFYP2Q**
Wavelength (nm)	635±5
Output power (W)	>4 **(X=4W)**, >5 **(X=5W)**, >6 **(X=6W)**
Transverse mode	Near TE_{00}
Operating mode	CW
Power stability (rms, over 4 hours)	<1% **(P=D)**
M^2 factor	<20
Dimensions of beam at aperture ($1/e^2$, mm)	~7.0 x 7.0
Beam divergence, full angle (mrad)	<5.0
Polarization	>50:1
Warm-up time (minutes)	<5
Pointing stability after warm-up (mrad)	<0.05
Beam height from base plate (mm)	93.5
Operating temperature (°C)	10~35
Laser head	346(L) x140(W) x125(H) mm^3, 5.7 kg
Power supply (90-240VAC)	**High Power W Version Elite Power Supply (Y=W):** 307(L) x168(W) x123(H) mm^3, 4.5 kg; complete FDA compliant features (turnkey switch and interlock); easy to operate; CW mode with optional TTL or Analog modulation up to 30kHz **High Power W Version Laboratory Power Supply (Y=N):** 336(L) x168(W) x133(H) mm^3, 4.6 kg; complete FDA compliant features (turnkey switch and interlock) with more functions; CW mode with adjustable output power knob, operating current LED display, and optional TTL or Analog modulation up to 30kHz
Optional modulation	None **(Q=0)** **TTL:** 1Hz -1kHz **(Q=1)**, 1kHz -10kHz **(Q=2)**, 10kHz-30kHz **(Q=5)** **Analog:** 1Hz -1kHz **(Q=3)**, 1kHz -10kHz **(Q=4)**, 10kHz-30kHz **(Q=6)**
Expected lifetime (hours)	10,000
Warranty	10 months
Remarks	The stability of output power may change when you adjust the output power. For example, the stability of output power at the maximum output power is <10%, the stability may change to >10% when you adjust the output power down.

Note: The above specifications are subject to change without notice.

19608 Camino De Rosa, Walnut, CA 91789, USA | Tel: (909)718-0999 | Fax: (909)718-0998 |
E-mail: info@lasermate.com | URL: http://www.lasermate.com

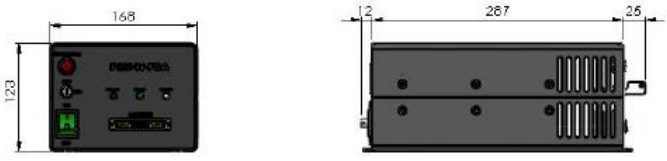
MECHANICAL OUTLINE (unit: mm)

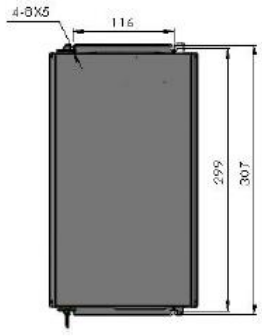
Laser Head



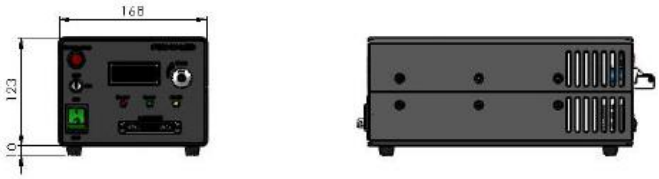
Power Supply

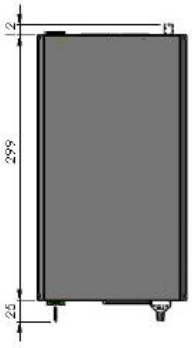
High Power W Version Elite Power Supply (Y=W)





High Power W Version Laboratory Power Supply (Y=N)





Note: The above specifications are subject to change without notice.