

RLTMPL-1064 10-20 μJ / 1-500mW

- IR DPSS Q-Switched Pulsed Laser System
- 1064 nm, 10-20 μJ
- Temperature-controlled
- CE certified
- 1 Year warranty





Description

RLTMPL1064 10-20 \muJ is a series of infrared temperature-stabilized (**TEC**) diode pumped solid state (DPSS) laser systems, emitting at a typical wavelength of 1064 nm, with a **TEM**₀₀ beam profile and output power stability of <3%... It features a separate laser head and power supply unit, supporting a wide input voltage range of 90-260 VAC and safety interlock. Enhanced power stability of <2% and <1% are optionally available. **RLTMDL-1064 10-20 \muJ** series is RoHS compliant, CE certified, and comes with a **1 Year warranty**.

Electro-Optical Characteristics (TCASE = 25°C)

| Parameter | | Values | | | | Unit |
|---|--------------|---|-------|--------|---------|------|
| Wavelength | | 1064 ±1 | | | nm | |
| Operating Mode | | Q-Switched pulsed | | | | |
| Max. Average Power | | 200 500 | | | mW | |
| Single Pulse Energy | | 10 – 20 | | | μJ | |
| Pulse Duration | | ~1.3 | 3 – 5 | 5 – 10 | 10 – 25 | ns |
| Peak Power | | 7 – 15 | 2 – 6 | 1 – 4 | 0.4 - 2 | kW |
| Rep.Rate | Fixed | Setting up one fixed rep. rate internal between 1 Hz – 4 kHz with stable pulse energy, pulse duration and pulse period. | | | | |
| | Ext. Trigger | 1 Hz – 4 kHz by external trigger with stable pulse energy, pulse duration and pulse period | | | | |
| | QCW | QCW state with one rep. rate between 5 – 20 kHz | | | | |
| Average Power | | Average power (mW) = Single pulse energy (μ J) * Rep. | | | | mW |
| Average Power Stability (rms, over 4 hours) | | < 3% , < 2%*, < 1%* | | | | |
| Transverse Mode | | TEM ₀₀ | | | | |
| Warm-up Time | | <10 | | | min | |
| M ² Factor | | <1.2 | | | | |
| Beam Diameter at aperture (1/e²) | | ~1.2 | | | | |
| Beam Divergence (full angle) | | <1.5 | | | | |
| Beam Height (from base plate) | | 24.8 | | | mm | |
| Operating Temperature | | 10 – 35 | | | °C | |
| Power Supply (90-260VAC) | | PSU-FDA (included) | | | | |
| Expected Lifetime | | 10000 | | | hours | |

^{*} optionally available



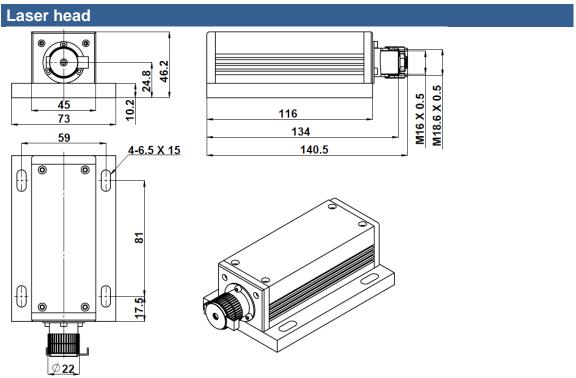






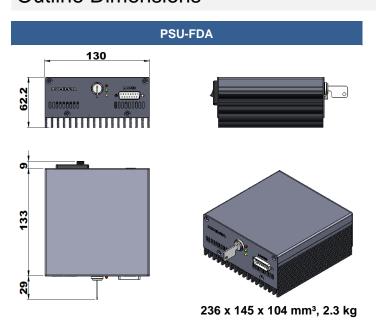
LA SER RADIATION
AVOID EYE OR SKIN EXPOSURE TO
DIRECT OR SCATTERED RADIATION
CLASS 4 LASER PRODUCT

Outline Dimensions



140.5 x 73 x 46.2 mm³, 0.6 kg

Outline Dimensions



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General Notes

- The laser head should be mounted on a flat, thermally dissipating surface and/or head sink to maintain a high-level of heat dissipation and reliability. Failure to comply with this procedure may cause permanent damage to the laser.
- Environmental temperature should be stable or only drift slowly within the allowed range of 10°C 35°C. Abrupt changes in room temperature can affect the laser and deteriorate its performance and stability.
- The air duct must not be blocked, and it is required to have at least 5-10cm of free space for unobstructed air flow.
- If the laser system needs to be installed into equipment, please make sure there is sufficient airflow around the laser head. If necessary, additional fans may be used to help heat dissipation.

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The above specifications are for reference purpose only and subjected to change without prior notice

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