



High-Power Helium Neon Laser Systems

- Output power to 35 mW
- $M^2 < 1.1$
- >95% TEM₀₀ mode
- Complete systems, including power supply
- CE compliant (230-Vac version only)

The Melles Griot family of high-power helium neon lasers exhibit the long life, excellent stability, and field-proven performances that have made Melles Griot the undisputed worldwide leader in helium neon laser technology.

The 25 LHR/P 925, 828, and 928 lasers have guaranteed performances of 17, 25, and 35 mW, respectively, making them ideal for Raman spectroscopy, holography, fast scanning, and test and measurement applications. Most are available either in randomly or linearly polarized (with >500:1 extinction ratio) configurations, and they can be mounted in a variety of orientations without sacrificing power or performance. Systems are convection cooled and operate from standard 100 Vac, 115 Vac, or 230 Vac outlets.

SPECIFICATIONS:

HIGH-POWER HELIUM NEON LASER SYSTEMS

Wavelength : 632.8 nm

Transverse Mode : TEM₀₀

Pointing Stability : <0.03 mrad after 30 minutes

Long-Term Drift : ±2% per hour

Noise (rms) : <1%

Noise Frequency : 30 Hz to 10 MHz

Input Voltage : 100 Vac, 115 Vac, or 230 Vac ± 10% (specify)

Input Frequency : 50–60 Hz

Shock : 25 G for 11 msec

Operating Temperature : –20°C to +40°C

Nonoperating Temperature : –40°C to +80°C

Operating Humidity : 0% to 90% non condensing

Nonoperating Humidity : 0% to 100%

CDRH Class : IIIb

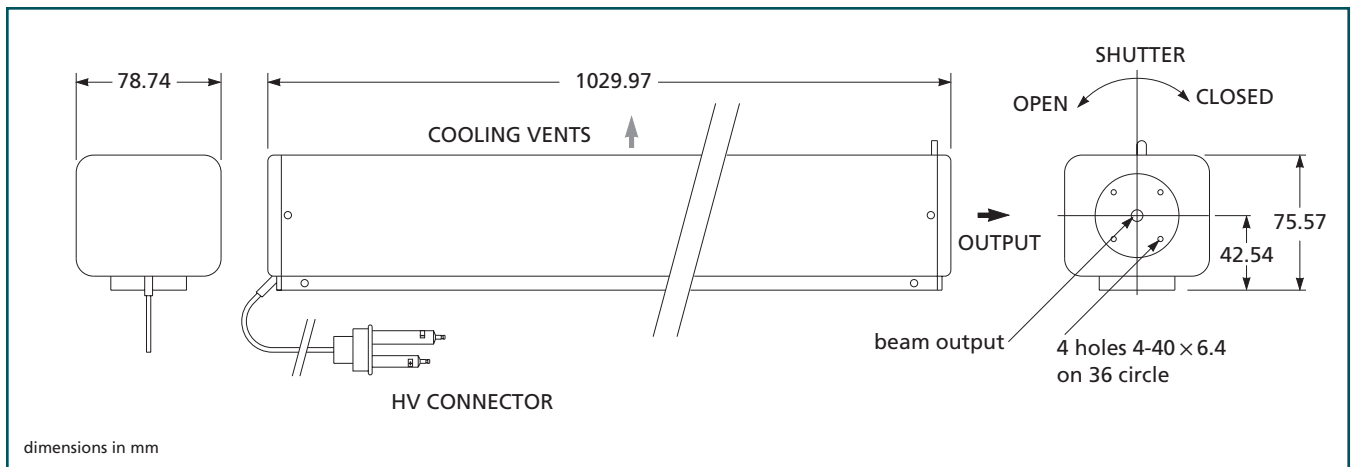
IEC Class : 3B

CE Compliance : Compliant (230-Vac version only)

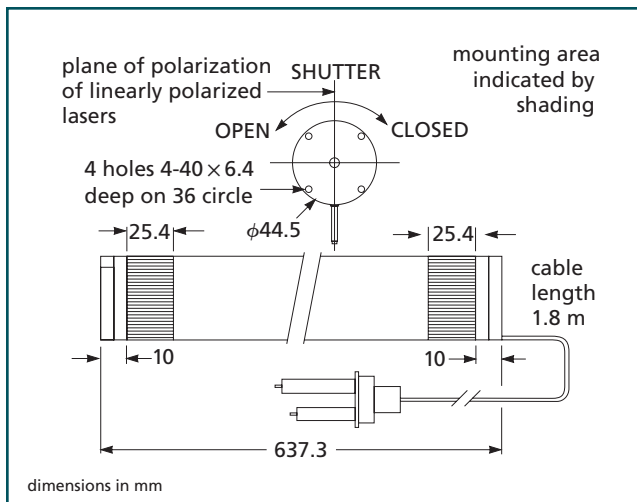
High-Power Helium Neon Laser Systems

cw Output Power (mW)	Beam Diameter (1/e ²) (mm)	Beam Divergence (1/e ²) (mrad)	Maximum Mode Sweeping (%)	Polarization	Longitudinal Mode Spacing (MHz)	Noise (30 Hz–10 MHz)	Package Configuration	PRODUCT NUMBER*
17.0	0.96	0.84	≤1	Random	257	<0.5% rm	Cylindrical	25 LHR 925
17.0	0.96	0.84	≤1	Linear	257	<0.5% rms	Cylindrical	25 LHP 925
25.0	1.23	0.66	5	Linear	165	<1.0% rms	Rectangular	25 LHP 828
35.0	1.23	0.66	5	Linear	165	<1.0% rms	Rectangular	25 LHP 928

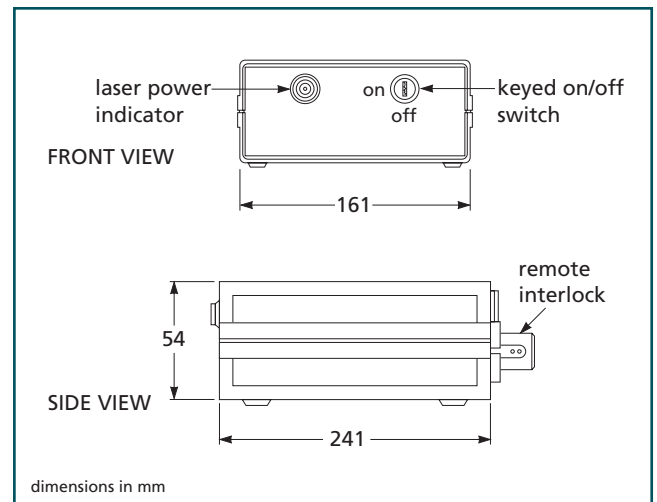
*Add the appropriate suffix to the product number to indicate input voltage: -461 for 100 Vac, -249 for 115 Vac, -230 for 230 Vac.



25 LHP 828 and 928 high-power helium neon laser head



25 LHR/P 925 high-power helium neon laser head



High-power helium neon laser power supply