STABILIZED HELIUM NEON LASER SYSTEM
MODEL: N-STP-912

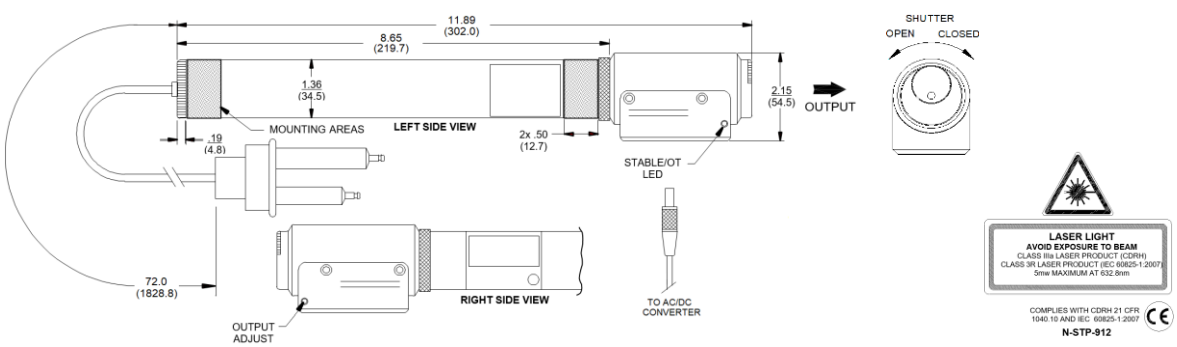
OUTPUT SPECIFICATIONS	
Output Power @ 632.8nm (mW)	>1.0
Beam Diameter at $1/e^2$ (mm)	0.54
Beam Divergence (mrad)	1.50
Transverse Mode	TEM_{oo}
Polarization	Linear >1000:1
Warm-up Time, Frequency Lock (minutes)	<10
Amplitude Noise, 30 Hz to 10 MHz (RMS)	0.1%
Frequency Tunability Range, Blue Side (MHz)	50 – 600
Amplitude Tunability Range, typical (mW)	0.60 – 1.40
Coherence Length:	
1 Hour (Meters)	>300
8 Hours (Meters)	>30
1 Month (Meters)	>30
Amplitude Stability:	
1 Hour (%)	±0.1
8 Hours (%)	±0.1
1 Month (%)	±0.2
Frequency Stability:	
1 Hour (MHz)	<±1
8 Hours (MHz)	±1
1 Month (MHz)	±10

LASER HEAD ELECTRICAL SPECIFICATIONS	
Start Voltage (kVDC):	<10
Operating Voltage (VDC):	1600 ± 100
Operating Current (mA):	4.0 ± 0.2

SINGLE FREQUENCY ADAPTER (SFA) ELECTRICAL SPECIFICATIONS*:	
Input Voltage (VDC):	13.5 to 15.5
Input Current (A):	1.0

ENVIRONMENTAL SPECIFICATIONS	OPERATING	NON-OPERATING
Temperature (°C)	15 to +35	-20 to +80
Relative Humidity (%, non-condensing)	0 to 90	0 to 90

Specifications are subject to change without notice.
*AC/DC converter included



Dimensions in Inches (mm)

Rev 5.20.2

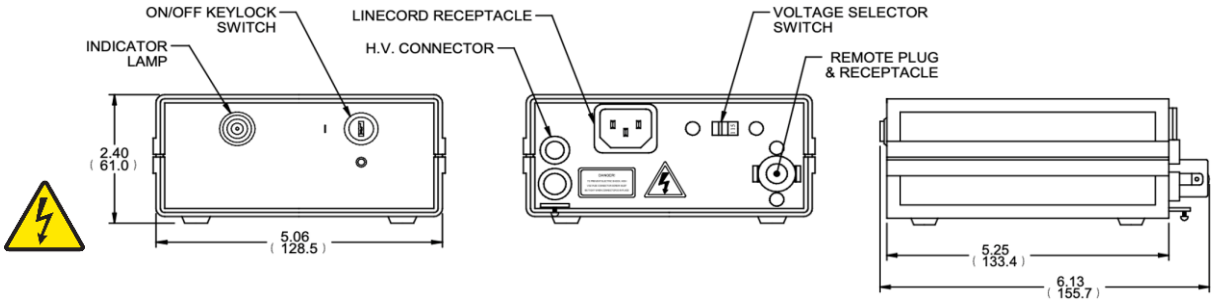
LABORATORY HELIUM NEON LASER POWER SUPPLY

INPUT SPECIFICATIONS	
Voltage (VAC)*	115 / 230
Line Frequency (Hz)	50 to 400
Current (A)	0.2 / 0.1

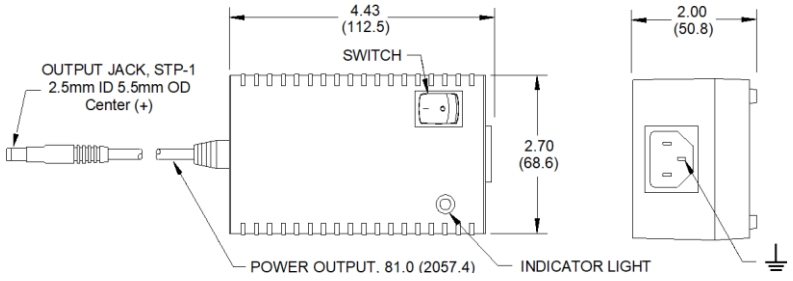
OUTPUT SPECIFICATIONS	
Sustaining Voltage (VDC)	1300 to 1900
Start Voltage (kVDC)	>8
Current Setting (mA)	4.0 ± 0.2
Power (W)	< 6.3
Current Ripple (% Peak to Peak)	< 2.0
Current Ripple (% RMS)	< 0.71
Time Delay (Seconds)	3 to 7

ENVIRONMENTAL SPECIFICATIONS	OPERATING	NON-OPERATING
Temperature (°C)	-20 to +40	-40 to +80
Altitude (meters)	0 to 3000	0 to ∞
Relative Humidity (%, non-condensing)	0 to 99%	0 to 99%
Mechanical Shock (g)	< 50 for < 11 msec	< 50 for < 11 msec < 100 for < 1 msec

Specifications are subject to change without notice.
*Please specify AC power cord plug type: NEMA 5-15P for 100 to 120 VAC, Europlug (CEE7/4) for 230 VAC, or British Standard (BS 1363) for 230 to 240 VAC.



AC/DC CONVERTER



Dimensions in Inches (mm)
Reference Dimensions Only