

Power Supply Options for Helium-Neon Lasers



All Lumentum helium-neon power supplies provide a highly regulated constant current output, allowing for excellent optical stability and performance.

The power supply automatically adjusts laser tube voltage to maintain a fixed discharge current. A CDRH time delay is active on all power supplies, and may be defeated on power supply modules. All power supplies have complete fault protection and can withstand output short circuits, output open circuits, or arc-to-ground conditions. Power supplies are available for 100, 115, 200, 230 V AC, and 12 V DC operation, with efficiencies greater than 85 percent.

Complete laser systems are made by combining a 1100 or 1600 series laser head with the appropriate 1200 series power supply. Laser systems meet Center for Devices and Radiological Health requirements and display logotypes describing CDRH classification and operating limits.

Key Features

- Highly regulated, constant-current output
- Complete fault protection
- Exceptional direct current (DC) stability
- Typical conversion efficiency >85%
- Compact, rugged packaging
- Exceptional lifetime

Applications

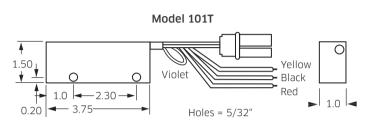
• For use with Lumentum helium-neon laser heads and tubes

Compliance

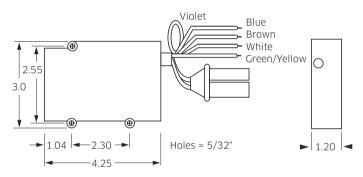
- TÜV EN 60-950
- UL1950
- CUL

Power Modules

(Specifications in inches unless otherwise noted. All power supply modules incorporate 12-inch high voltage cables with standard connector and 12-inch flying lead inputs.)

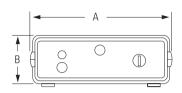


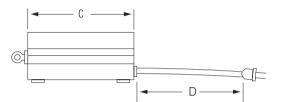




Model 1200 Series Power Supply

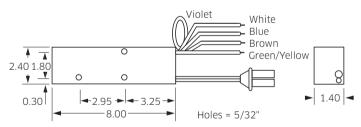
(Specifications in inches unless otherwise noted.)





	А	В	С	D
120x	8.1	2.5	6.30	—
121x	8.5	3.0	9.25	
12xx-1	_	_	_	72
12xx-2	_	_	_	2.5 m
12xx-3	_	_	_	72

Model 380T



Power Supply Module Input Wiring Information

	115/230 V AC Versions		100/200 V AC Version	100/200 V AC Versions			
Wire Color	115 V AC	230 V AC	100 V AC	200 V AC	12 V DC Versions		
Blue	Open circuit	230 V AC (neutral)	—	—	—		
Brown	115 V AC (line)	230 V AC (line)	—	—	_		
White	115 V AC (neutral)	Open circuit	—	—	_		
Green/Yellow	Earth ground	Earth ground	Earth ground	Earth ground	—		
Violet	CDRH loop	CDRH loop	CDRH loop	CDRH loop	CDRH loop		
Red	_	—	100 V AC (line)	200 V AC (line)	_		
Red	—	—	NC	200 V AC (neutral)	12 V DC		
Yellow	—	—	100 V AC (neutral)	N/C	—		
Black	_	—	—	—	Ground		

Notes: Other power supply solutions may be available for OEM applications. Contact your local Lumentum sales representative for more information. Model 1200 series lab style power supplies include emission indicator, key switch, keys, fusing, and detachable line cord. All 100 and 300 series power supply modules require appropriate fusing. Laser power supplies generate dangerous voltages and must be configured properly for safe operation. All power supplies carry a minimum of TUV EN 60-950, UL1950, and CUL approvals. All products shipped standard with 12-inch high voltage cable, 12-inch input leads, and flying leads on inputs.

100 and 300 Series Power Supply Modules for Red HeNe Lasers

		For O	or Operation of Laser Tubes and Heads															
Model #	Input	098- (0,2)	098-3	1001/3	1007/8	1018	1022	1025	1037	102- (3,4)	196- (2,4)	1101/3	1107/8	1122	1125	1135	1137	1144/45
101T-1250	DC	Х			х								х					
101T-1700	DC		х	х		Х				Х	Х	x						
101T-1800	DC						Х							Х				
101T-2300	DC							х	х						Х		Х	
314T-1250	AC	х			х								Х					
314T-1700	AC		х	х		х				х	х	х						
314T-1800	AC						Х							Х				
314T-2300	AC							х	х						Х		Х	
380T-3100	AC															Х		
380T-3800	AC																	х

1200 Series CDRH Laboratory Power Supplies for Red HeNe Lasers

		For Operation of Laser Heads									
Model #	Input	102-(3,4)	196-(2,4)	1101/3	1107/8	1122	1125	1135	1137	1144/45	
1201-(1,2,3)	AC	x	х	х							
1202-(1,2,3)	AC						х		х		
1205-(1,2,3)	AC				х						
1206-(1,2,3)	AC					х					
1216-(1,2,3)	AC							Х			
1218-(1,2,3)	AC									Х	

		For Operation of	For Operation of Laser Heads									
Model #	Input	1652	1653	1654	1673	1674	1677	1679				
101T-2300A	DC	х	х	х			х	х				
101T-2700A	DC				х	х						
314T-2300A	AC	х	х	х			Х	Х				
314T-2700A	AC				х	х						
1207- (1,2,3)	AC	х	х	х			х	х				
1208- (1,2,3)	AC				х	х						

Laboratory and Module Power Supplies for Green, Yellow, and Orange HeNe Lasers

Input Voltage Options

Models 314T and 380T power supplies are provided with a 115/230 V AC input. For 100/200 V AC versions, add "100 V" to the end of the part number when ordering.

All DC power supplies are provided with a 12 V DC input.

For 1200 series laboratory supplies, specify the desired input voltage by adding the appropriate dash number to the model number when ordering:

'-1' for 115 V AC '-2' for 230 V AC '-3' for 100 V AC

Ordering Information

For more information on this or other products and their availability, please contact your local Lumentum account manager or Lumentum directly at customer.service@lumentum.com.

Sample: 101T-1250

Warranty

Lumentum helium-neon laser systems are warranted to be free of defects in workmanship and materials for twelve months from the date of shipment.

Regulatory Compliance

The products listed in this data sheet comply to one or more of the following regulatory standards, and may display one or more of the safety labels shown below. Contact your local Lumentum sales representative for additional information on specific products or configurations.





North America Toll Free: 844 810 LITE (5483)

Outside North America Toll Free: 800 000 LITE (5483)

China Toll Free: 400 120 LITE (5483)

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