

MIL-STD-810C Specifications

Lowest Output Ripple & Noise

High Line & Load Stability

Rugged Construction

High Temperature Operation

Convection Cooling

5 Year Warranty

Lambda's LD and LN Series linear power supplies are designed to meet the ever increasing requirements of high reliability and ease of use in today's modern equipment. They feature extremely low output ripple and noise – ideal for medical and industrial applications, and test equipment employing sensitive analog circuits.

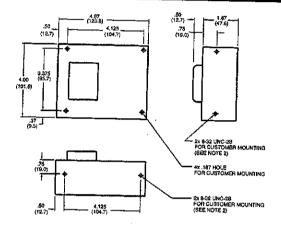
Lambda's LD and LN Series are manufactured using only the highest grade components. Our stringent in-house component derating ensures that the LD and LN Series provide the highest reliability for any low-noise application.

AC Input	105-127VAC, 210-254VAC (by transformer tap change), 47-440Hz. With	OUTPUT	POWER (W)	30*	MAX CUI	RENT AMPS	AT 60°	71.	MODEL
EMI	derating (consult factory). MIL-I-6181D – Conducted and radiated EMI with one output terminal grounded.								
DC Output Controls	LD Series: volt per volt. LN Series: volt per volt (not on LND).								
Line Regulation	LD Series: 0.005% +0.5mV. LN Series: 0.1% (0.15% for LNS-Z).								
Load Regulation	LD Series: 0.005% +0.5mV. LN Series: 0.1% (0.15% for LNS-Z).								
Ripple and Noise	LD Series: 150uV RMS, 1mV pk-pk. LN Series: 1.5mV RMS, 5mV pk-pk.								
Overskoot	No overshoot on turn-on, turn-off or power failure.								
Overvoltage Protection	Overvoltage protection module crowbars output when trip level is exceeded – standard on all 5V models, except the LNS-P-5.								
Overload Protection	Automatic electronic current limiting circuit limits the output current to a preset value, thereby providing protection for the load as well as the power supply.								
Cooling	All units are convection cooled. No external heat sinking or forced air is required.								
Operating Temperature Range	Continuous operation from 0°C to +71°C on LN Series and 0°C to +60°C on LD Series with suitable derating above +40°C.								
Storage Temperature	-55°C to +85°C.								
Fungus Proofing	No fungi nutrient material used.	Wide Ran	go						
Temperature Coefficient	LD Series: 0.01% + 10uV per °C. LN Series: 0.03% per °C.	0-7V (Adju	stable)	_	3.40	2.85	1.80	_	LD\$-Y-01
Isolation	Minimum, 10 Megohm isolation from DC to ground at 750VDC.	0-18V (Ad	iustable)	_	4,10 9.00	3.40 8.00	2.60 7.10	-	LDS-X-01 LDS-P-01
Remote Sensing	Provision is made for remote sensing to eliminate the effect of power output lead resistance on DC regulation.	0-201 (AU,	ustable)	-	1.80 1.95 4.30	1.60 1.60 3.80	0.90 1.30 3.10	-	LDS-Y-02 LDS-X-02 LDS-P-02
Resistive Programming	LD Series: 1000 ohms/volt. LN Series: 200 ohms/volt (not on LND).	0-32V (Ad	justable)		1.10	0.95	0.60	_	LDSY-03
Thermal Protection	Thermostat - automatically reset when overtemperature condition is eliminated.			-	2.50	2.40	2.20	-	LDS-P-03
Mounting	LN/LDS-Y, X, W - three mounting surfaces, three mounting positions. LN/LDS-P - one mounting surface, one mounting position.								·
Input and Output Connections	Heavy-duty screw terminals on printed circuit board.								
Safety Agency Approval	UL 1950, CSA 950.								
Warranty	5 years.								

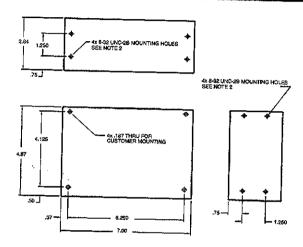
For use without cover increase output by 15%.

LD Series Low noise linear power supplies

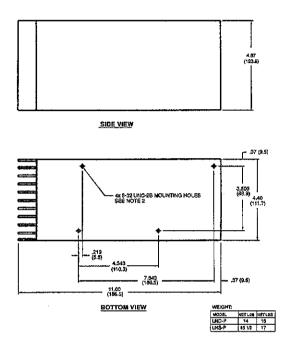
LDS-X



- DIMENSIONS ARE IN INCHES EXCEPT DIMENSIONS () ARE IN MM.
 SAS UNC-25 TAPPED HOLES FOR CUSTOMER MTG.
 SCREWS MUST NOT PROTRUDE INTO POWER SUPPLY
 BY MORE THAN .25 (6.3).
- 3. CUSTOMER MUST PROVIDE CLEARANCE AROUND VENT HOLES TO ALLOW FOR AIR FLOW.
 4. WEIGHT: NET 3 LBS, SHIP 3 1/4 LBS.



- NOTE:
 1. DIMENSIONS ARE IN INCHES EXCEPT DIMENSIONS () ARE IN MM.
 2. 8-32 UNC-28 TAPPED HOLES FOR CUSTOMER MTG.
 SCREWS MUST NOT PROTRUDE INTO POWER SUPPLY
 BY MORE THAN 25 (8.3).
- 3. CUSTOMER MUST PROVIDE CLEARANCE AROUND VENT HOLES TO ALLOW FOR AIR FLOW. 4. WEIGHT: 7 3/4 LBS

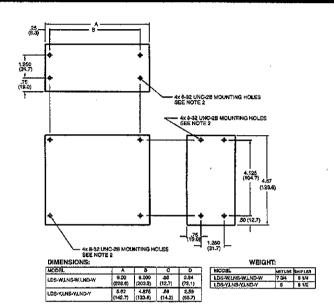


- NOTE:

 1. DIMENSIONS ARE IN INCHES EXCEPT DIMENSIONS () ARE IN MM.

 2. 4x 8-32 LINC-28 TAPPED HOLES FOR CUSTOMER MTG.

 SCREWS MUST NOT PROTRUDE INTO POWER SUPPLY BY MORE THAN .25 (6.3).



- NOTE:

 1. DIMENSIONS ARE IN INCHES EXCEPT DIMENSIONS () ARE IN MM.

 2. 8-32 UNC-28 TAPPED HOLES FOR CUSTOMER MTG.

 SCREWS MUST NOT PROTRUDE INTO POWER SUPPLY BY MORE THAN .25 (6.3).

 3. CUSTOMER MUST PROVIDE CLEARANCE AROUND VENT HOLES
 TO ALLOW FOR AIR FLOW.