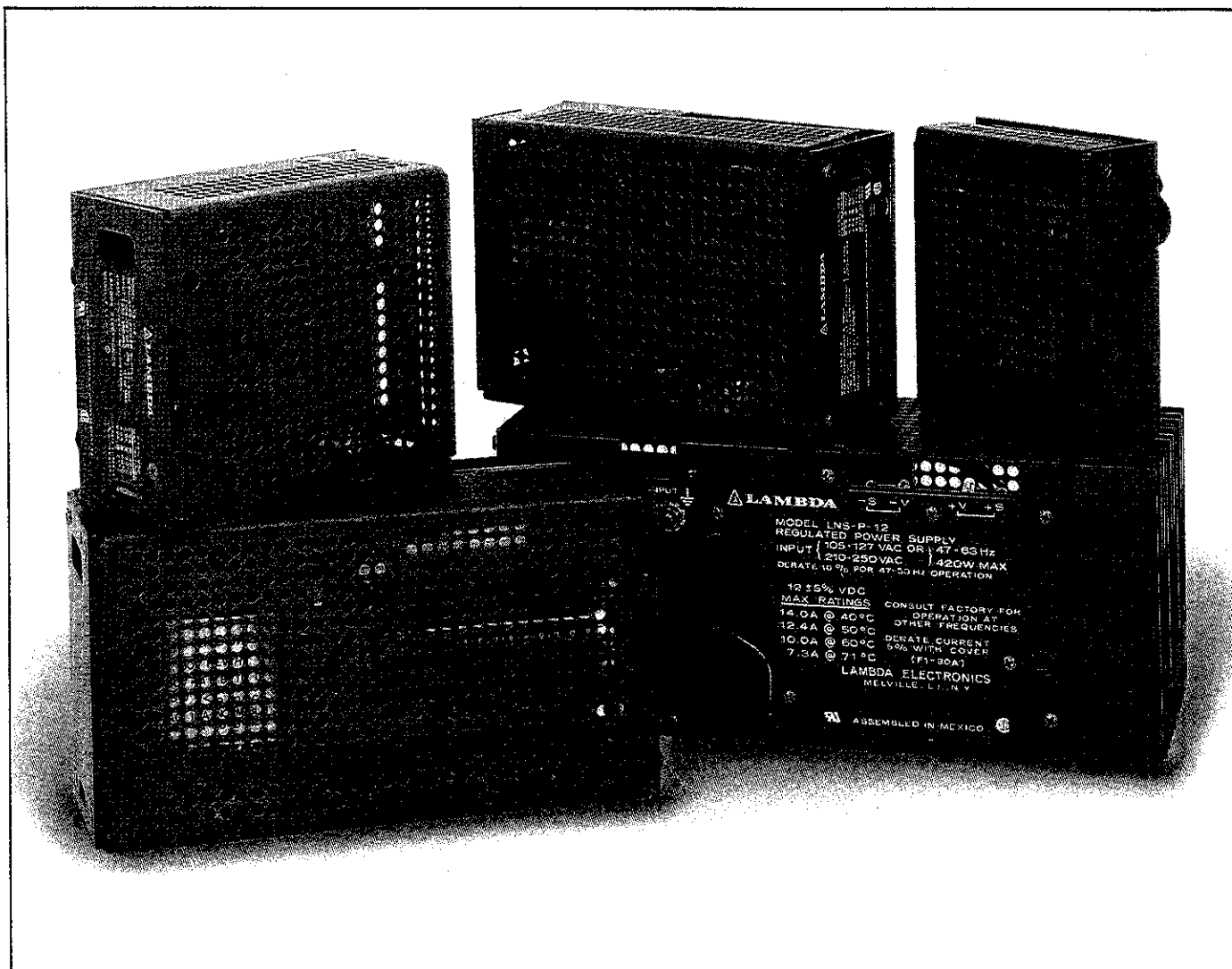


PART IB—AC-TO-DC LINEAR POWER SUPPLIES

LAMBDA'S MIL-ENVIRONMENT LN SERIES



RUGGEDIZED LINEAR MODULES FOR TEST AND GROUND SUPPORT APPLICATIONS

Lambda's LN Series is ideal for low power military ground support and ruggedized industrial applications where low noise specifications of 1.5mV RMS and 5mV peak to peak are system requirements. When choosing a power supply, reliability starts at the design and follows through with component selection — and Lambda uses only quality driven components in the LN Series.

- The LN Series meets MIL-STD-810 environmental conditions as qualified by an independent testing lab. It is the best price/performance linear power supply on the market and has become recognized as the industry high rel standard.
- The LN Series is the optimum choice for applications requiring a high reliability linear at a low cost.
- Available in 5 single output and 5 dual output packages, up to 48VDC, up to 22A. They have been designed to cover the power range up to 110W with enough models to choose the one that meets your exact load requirements thus minimizing costs.
- Output ripple: 1.5mV RMS.
Regulation: 0.1% line and load.
- Lambda's LN Series is manufactured using only the highest grade MIL-type components in conjunction with hermetically sealed power semiconductors and monolithic voltage regulators. This results in the highest reliability for low power linear applications.
- Grade 1 design.

PART IB—AC-TO-DC LINEAR POWER SUPPLIES

LAMBDA'S MIL-ENVIRONMENT LN SERIES

DC OUTPUT

Voltage range shown in tables.

REGULATED VOLTAGE

regulation, line 0.1% (0.15% for LN-Z).
regulation, load 0.1% (0.15% for LN-Z).
ripple and noise
(20MHz Bandwidth) 1.5mV RMS, 5mV pk-pk (5mV RMS, 15mV
pk-pk for LNS-P-48) with either positive
or negative terminal grounded.
temperature
coefficient 0.03%/°C.
remote programming
resistance 200 Ω /volt nominal
(LNS models only).
remote programming
voltage volt per volt (LNS models only).

AC INPUT

line 105 to 127VAC, 210 to 254VAC (by transformer
tap change) 47-440Hz. Consult factory for
operation at frequencies other than 57-63Hz.

EFFICIENCY

Typical 30% for 5V and 6V models. 42% for 12V and 15V models. 49% for
20V, 24V and 28V models. 52% for 48V models. 42% for dual output models
except for LND-MPU which is 34%.

OVERSHOOT

No overshoot on turn-on, turn-off or power failure.

OPERATING TEMPERATURE RANGE

Continuous duty from 0° to +71°C with corresponding load current ratings
for all modes of operation.

STORAGE TEMPERATURE RANGE

-55°C to +85°C.

OVERLOAD PROTECTION ELECTRICAL

External 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.

THERMAL

Thermostat — automatically reset when overtemperature condition is
eliminated.

OVERVOLTAGE PROTECTION

Overvoltage protection module crowbars output when trip level is exceeded
— standard on all 5V models and both outputs of model LND-X-MPU.

COOLING

All units are convection cooled. No external heat sinking or forced air is
required.

DC OUTPUT CONTROLS

Simple screwdriver adjustment over the entire voltage range.

INPUT AND OUTPUT CONNECTIONS

Heavy-duty screw terminals on printed circuit board.

TRACKING ACCURACY (DUAL TRACKING MODELS ONLY)

3% absolute voltage difference, 0.2% change for all conditions of line, load
and temperature.

MOUNTING

Three mounting surfaces, three mounting positions. One mounting position
for LN-P models.

REMOTE SENSING

Provision is made for remote sensing to eliminate the effect of power output
lead resistance on DC regulation.

TRANSFORMER

MIL-T-27C, Grade 6; Electrostatic shield; 4000VAC input/output isolation.

ISOLATION RATING

Minimum, 10 Megohm isolation from DC to ground at 750VDC.

FUNGUS PROOFING

No fungi nutrient material used.

MILITARY SPECIFICATIONS

The LN Series has passed the following tests in accordance with MIL-
STD-810C.

- 1) Low Pressure—Method 500.1, Procedure I.
 - 2) High Temperature—Method 501.1, Procedures I & II.
 - 3) Low Temperature—Method 502.1, Procedure I.
 - 4) Temperature Shock—Method 503.1, Procedure I.
 - 5) Temperature-Altitude—Method 504.1, Procedure I.
Class 2 (0°C operating)
 - 6) Humidity—Method 507.1, Procedures I & II.
 - 7) Fungus—Method 508.1, Procedure I.
 - 8) Vibration—Method 514.2, Procedures X & XI.
 - 9) Shock—Method 516.2, Procedures I & III.
- MIL-I-6181D—Conducted and radiated EMI with one output terminal
grounded.

PHYSICAL DATA

Package Model	Lbs. Net	Lbs. Ship	Size Inches
LN-Z	3	3 ¹ / ₄	4 ⁷ / ₈ × 4 × 1 ³ / ₄ (w/cover)
LN-Y	5	5 ¹ / ₂	4 ⁷ / ₈ × 4 × 1 ⁵ / ₈ (w/o cover)
			5 ⁵ / ₈ × 4 ⁷ / ₈ × 2 ⁵ / ₈ (w/cover)
LN-X	7 ³ / ₄	8 ¹ / ₄	5 ⁵ / ₈ × 4 ⁷ / ₈ × 2 ¹ / ₂ (w/o cover)
			7 × 4 ⁷ / ₈ × 2 ⁷ / ₈ (w/cover)
LN-W	9	9 ¹ / ₂	7 × 4 ⁷ / ₈ × 2 ³ / ₄ (w/o cover)
			9 × 4 ⁷ / ₈ × 2 ⁷ / ₈ (w/cover)
LNS-P	14	15 ¹ / ₂	9 × 4 ⁷ / ₈ × 2 ³ / ₄ (w/o cover)
LND-P	15 ¹ / ₂	17	11 × 4 ⁷ / ₈ × 4 ¹³ / ₃₂ (w & w/o cover)
			11 × 4 ⁷ / ₈ × 4 ¹³ / ₃₂ (w & w/o cover)

ACCESSORIES

For rack adapters and other accessories, see Part IV of this catalog.

Power Supply Series

OV Series

LNS-Z	L-6A-OV
LNS-Y	L-6A-OV
LNS-X	L-12A-OV
LNS-W	Consult Factory
LNS-P	Consult Factory
LND (All Series)	Consult Factory
	L-12A-OV

FINISH

Gray, Fed. Std. 595, No. 26081.

GUARANTEED FOR 5 YEARS

5-year guarantee includes labor as well as parts. Guarantee applies to
operation at full published specifications at end of 5 years.

UL / CSA

UL Recognized. CSA Certified.

PART IB—AC-TO-DC POWER SUPPLIES

MIL-ENVIRONMENT LINEAR SELECTOR GUIDE

AC Input. Single Output. Fixed Voltage.

MAX CURRENT AT OPERATING TEMPERATURE OF 40°C	50°C	60°C	71°C	COMPLETE ELEC. SPEC. PG.	COMPLETE MECH. SPEC. PG.	DIMENSIONS (inches)	LAMBDA'S CHOICE (Δ) *	QTY. 1	PRICE QTY. 10	QTY. 25	MODEL
5V $\pm$ 5% ADJ.											
3.0(2.7)	2.7(2.40)	2.3(2.1)	1.7(1.5)	81	180	4 $\frac{7}{8}$ $\times$ 4 $\times$ 1 $\frac{3}{4}$	Δ	153	147	140	LNS-Z-5-OV ⁽¹⁾⁽⁴⁾
6.0(5.4)	5.1(4.6)	4.2(3.8)	3.1(2.8)	81	180	5 $\frac{5}{8}$ $\times$ 4 $\frac{7}{8}$ $\times$ 2 $\frac{5}{8}$	Δ	224	213	204	LNS-Y-5-OV ⁽¹⁾⁽⁴⁾
10.0(8.5)	8.9(7.6)	7.3(6.2)	5.3(4.5)	81	180	7 $\times$ 4 $\frac{7}{8}$ $\times$ 2 $\frac{7}{8}$	Δ	285	272	261	LNS-X-5-OV ⁽¹⁾⁽⁴⁾
14.0(11.9)	12.2(10.4)	10.0(8.5)	7.5(6.4)	81	180	9 $\times$ 5 $\times$ 2 $\frac{7}{8}$	Δ	338	322	308	LNS-W-5-OV ⁽¹⁾⁽⁴⁾
22.0(20.9)	19.5(18.5)	16.5(15.7)	13.0(12.4)	81	180	11 $\times$ 4 $\frac{7}{8}$ $\times$ 4 $\frac{13}{32}$	Δ	422	402	385	LNS-P-5-OV ⁽¹⁾⁽⁴⁾
6V $\pm$ 5% ADJ.											
2.5(2.25)	2.2(2.0)	1.9(1.7)	1.4(1.3)	81	180	4 $\frac{7}{8}$ $\times$ 4 $\times$ 1 $\frac{3}{4}$	Δ	145	138	132	LNS-Z-6 ⁽⁴⁾
20.5(19.5)	18.1(17.2)	15.3(14.5)	12.0(11.4)	81	180	11 $\times$ 4 $\frac{7}{8}$ $\times$ 4 $\frac{13}{32}$	Δ	384	366	352	LNS-P-6 ⁽⁴⁾
12V $\pm$ 5% ADJ.											
1.7(1.55)	1.6(1.45)	1.5(1.4)	1.3(1.2)	81	180	4 $\frac{7}{8}$ $\times$ 4 $\times$ 1 $\frac{3}{4}$	Δ	145	138	132	LNS-Z-12 ⁽⁴⁾
4.0(3.6)	3.5(3.15)	2.9(2.6)	2.2(2.0)	81	180	5 $\frac{5}{8}$ $\times$ 4 $\frac{7}{8}$ $\times$ 2 $\frac{5}{8}$	Δ	211	202	193	LNS-Y-12 ⁽⁴⁾
6.5(5.5)	5.5(4.7)	4.5(3.8)	3.3(2.8)	81	180	7 $\times$ 4 $\frac{7}{8}$ $\times$ 2 $\frac{7}{8}$	Δ	263	251	241	LNS-X-12 ⁽⁴⁾
8.5(7.2)	7.2(6.1)	5.9(5.0)	4.2(3.6)	81	180	9 $\times$ 5 $\times$ 2 $\frac{7}{8}$	Δ	317	302	289	LNS-W-12 ⁽⁴⁾
14.0(13.3)	12.4(11.8)	10.0(9.5)	7.3(6.94)	81	180	11 $\times$ 4 $\frac{7}{8}$ $\times$ 4 $\frac{13}{32}$	Δ	384	366	352	LNS-P-12 ⁽⁴⁾
15V $\pm$ 5% ADJ.											
1.4(1.3)	1.3(1.2)	1.2(1.1)	1.0(0.9)	81	180	4 $\frac{7}{8}$ $\times$ 4 $\times$ 1 $\frac{3}{4}$	Δ	145	138	132	LNS-Z-15 ⁽⁴⁾
3.4(3.1)	3.1(2.8)	2.6(2.35)	2.0(1.8)	81	180	5 $\frac{5}{8}$ $\times$ 4 $\frac{7}{8}$ $\times$ 2 $\frac{5}{8}$	Δ	211	202	193	LNS-Y-15 ⁽⁴⁾
5.5(4.7)	4.8(4.1)	3.9(3.35)	2.8(2.4)	81	180	7 $\times$ 4 $\frac{7}{8}$ $\times$ 2 $\frac{7}{8}$	Δ	263	251	241	LNS-X-15 ⁽⁴⁾
7.7(6.55)	6.7(5.7)	5.5(4.7)	3.8(3.15)	81	180	9 $\times$ 5 $\times$ 2 $\frac{7}{8}$	Δ	317	302	289	LNS-W-15 ⁽⁴⁾
12.0(11.4)	10.6(10.1)	8.5(8.1)	6.3(6.0)	81	180	11 $\times$ 4 $\frac{7}{8}$ $\times$ 4 $\frac{13}{32}$	Δ	384	366	352	LNS-P-15 ⁽⁴⁾
20V $\pm$ 5% ADJ.											
1.0(.9)	0.85(.77)	0.65(.59)	0.45(.41)	81	180	4 $\frac{7}{8}$ $\times$ 4 $\times$ 1 $\frac{3}{4}$	Δ	145	138	132	LNS-Z-20 ⁽⁴⁾
4.4(3.75)	3.6(3.1)	2.6(2.2)	1.6(1.4)	81	180	7 $\times$ 4 $\frac{7}{8}$ $\times$ 2 $\frac{7}{8}$	Δ	263	251	241	LNS-X-20 ⁽⁴⁾
10.0(9.5)	8.9(8.5)	7.5(7.1)	5.5(5.2)	81	180	11 $\times$ 4 $\frac{7}{8}$ $\times$ 4 $\frac{13}{32}$	Δ	384	366	352	LNS-P-20 ⁽⁴⁾

*LAMBDA'S RECOMMENDED CHOICE FOR NEW DESIGN REQUIREMENTS.

NOTES: (1) Includes fixed overvoltage protection.

(2) All LX Series models have fungus proofing standard and is included in model notation and price.

(3) ± 15 to ± 12 Volts are dual tracking unit outputs.

(4) Ratings in parenthesis for LD and LN Series when cover is used.

(A) All outputs continuously adjustable over entire range.

(B) Current rating is from zero to I_{max} . With exception of LND Series, current rating applies over entire output voltage range.

(C) LD, LC, LV, and LX Series power modules are available for operation at 360-440Hz. Consult factory for ratings and specifications. For 50Hz operation, derate LC Series by 10%.

for LX Series delete 40°C rating.

(D) Prices are U.S.A. list prices only, F.O.B. Melville, N.Y.; McAllen, Texas; Tucson, Arizona. All prices and specifications are subject to change without notice.

PART IB—AC-TO-DC LINEAR POWER SUPPLIES

MIL ENVIRONMENT LINEAR SELECTOR GUIDE

AC Input. Single Output. Fixed Voltage.

MAX CURRENT AT OPERATING TEMPERATURE OF				COMPLETE ELEC. SPEC. PG.	COMPLETE MECH. SPEC. PG.	DIMENSIONS (inches)	LAMBDA'S CHOICE (Δ)*	QTY. 1	PRICE QTY. 10	QTY. 25	MODEL
40°C	50°C	60°C	71°C								
24V ±5% ADJ.											
0.9(.81)	0.75(.68)	0.6(.55)	0.4(.36)	81	180	4 7/8 × 4 × 1 3/4	Δ	\$ 145	\$ 138	\$132	LNS-Z-24(4)
2.3(2.1)	2.1(1.9)	1.7(1.5)	1.1(1.0)	81	180	5 5/8 × 4 7/8 × 2 5/8	Δ	211	202	193	LNS-Y-24(4)
3.8(3.25)	3.2(2.75)	2.4(2.0)	1.4(1.2)	81	180	7 × 4 7/8 × 2 7/8	Δ	263	251	241	LNS-X-24(4)
5.4(4.6)	4.6(3.9)	3.7(3.1)	2.5(2.1)	81	180	9 × 5 × 2 7/8	Δ	317	302	289	LNS-W-24(4)
9.0(8.6)	8.0(7.6)	6.7(6.4)	5.0(4.8)	81	180	11 × 4 7/8 × 4 13/32	Δ	384	366	352	LNS-P-24(4)
28V ±5% ADJ.											
0.8(.75)	0.65(.60)	0.5(.45)	0.35(.32)	81	180	4 7/8 × 4 × 1 3/4	Δ	145	138	132	LNS-Z-28(4)
2.0(1.8)	1.8(1.65)	1.5(1.35)	1.0(0.9)	81	180	5 5/8 × 4 7/8 × 2 5/8	Δ	211	202	193	LNS-Y-28(4)
3.4(2.9)	2.9(2.5)	2.2(1.5)	1.2(1.0)	81	180	7 × 4 7/8 × 2 7/8	Δ	263	251	241	LNS-X-28(4)
4.7(4.0)	4.0(3.4)	3.2(2.75)	2.2(1.9)	81	180	9 × 5 × 2 7/8	Δ	317	302	289	LNS-W-28(4)
8.0(7.6)	7.1(6.75)	6.0(5.7)	4.5(4.3)	81	180	11 × 4 7/8 × 4 13/32	Δ	384	366	352	LNS-P-28(4)
48V ±5% ADJ.											
4.5(4.28)	4.0(3.8)	3.4(3.2)	2.5(2.38)	81	180	11 × 4 7/8 × 4 13/32	Δ	470	448	430	LNS-P-48(4)

*LAMBDA'S RECOMMENDED CHOICE FOR NEW DESIGN REQUIREMENTS.

- NOTES: (1) Includes fixed overvoltage protection.
 (2) All LX Series models have fungus proofing standard and is included in model notation and price.
 (3) ±15 to ±12 Volts are dual tracking unit outputs.
 (4) Ratings in parenthesis for LD and LN Series when cover is used.
 (A) All outputs continuously adjustable over entire range.
 (B) Current rating is from zero to I_{max}. With exception of LND Series, current rating applies over entire output voltage range.
 (C) LD, LC, LN, and LX Series power modules are available for operation at 360-440Hz. Consult factory for ratings and specifications. For 50Hz operation, derate LC Series by 10%; for LX Series delete 40°C rating.
 (D) Prices are U.S.A. list prices only, F.O.B. Melville, N.Y.; McAllen, Texas; Tucson, Arizona. All prices and specifications are subject to change without notice.

PART IB—AC-TO-DC LINEAR POWER SUPPLIES

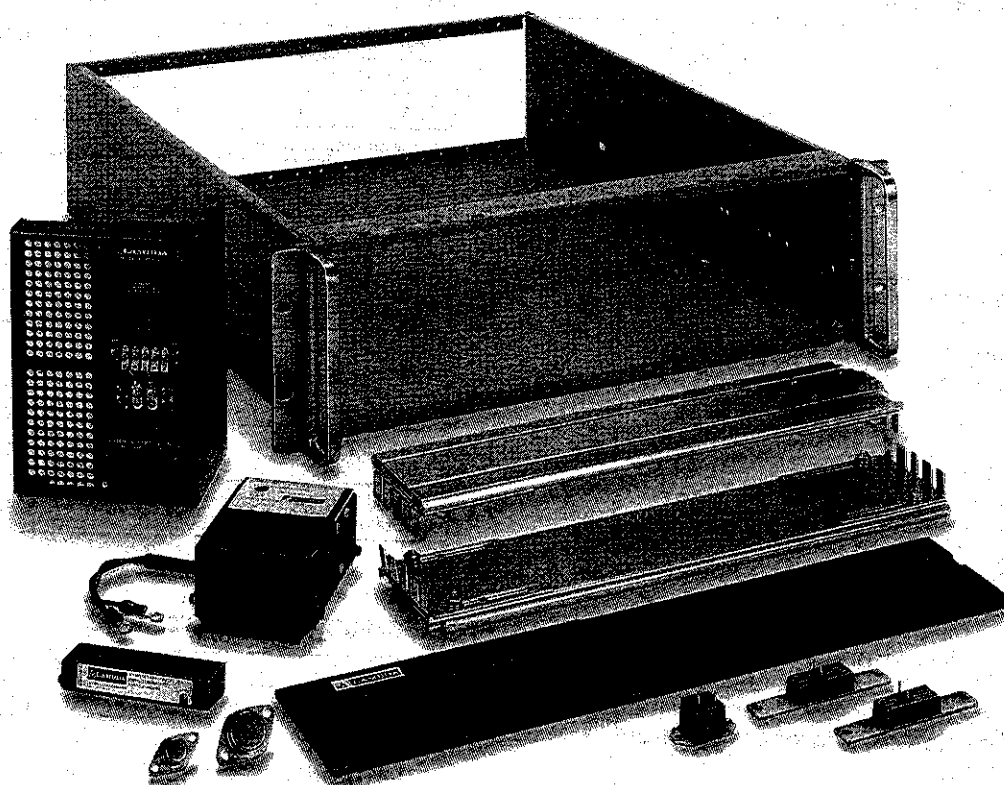
MIL-ENVIRONMENT LINEAR SELECTOR GUIDE

AC Input. Dual Tracking. Dual Output.

VOLT Vo	MAX CURRENT AT OPERATING TEMPERATURE OF	40°C	50°C	60°C	71°C	COMPLETE ELEC. SPEC. PG.	COMPLETE MECH. SPEC. PG.	DIMENSIONS (inches)	LAMBDA'S CHOICE (Δ)*	QTY. 1	PRICE QTY. 10	QTY. 25	MODEL
5V ±5% ADJ., 9V-12V ADJ.													
5V ±5%	7.0(6.0)	6.0(5.1)	4.7(4.0)	3.2(2.7)		81	180	7 × 4 7/8 × 2 7/8	Δ	\$347	\$332	\$318	LND-X-MPU
9-12	1.2(1.0)	1.1(1.0)	1.0(0.8)	0.8(0.7)									(4)
±15V TO ±12V ADJ. (Dual Tracking) (Also used as 24 to 30 VDC)													
±15 to	0.6(0.5)	0.55(0.5)	0.45(0.4)	0.3(0.3)		81	180	4 7/8 × 4 × 1 3/4	Δ	165	157	151	LND-Z-152(4)
±12	0.6(0.5)	0.55(0.5)	0.45(0.4)	0.3(0.3)									(3)
±15 to	1.4(1.2)	1.2(1.0)	0.9(0.8)	0.6(0.5)		81	180	5 5/8 × 4 7/8 × 2 5/8	Δ	231	221	211	LND-Y-152(4)
±12	1.2(1.0)	1.1(0.9)	0.8(0.7)	0.5(0.4)									(3)
±15 to	2.5(2.1)	2.1(1.8)	1.6(1.4)	1.1(0.9)		81	180	7 × 4 7/8 × 2 7/8	Δ	304	290	279	LND-X-152(4)
±12	2.3(2.0)	1.9(1.6)	1.4(1.2)	0.9(0.8)									(3)
±15 to	3.3(3.0)	3.1(2.8)	2.6(2.3)	2.0(1.8)		81	180	9 × 5 × 2 7/8	Δ	344	328	315	LND-W-152(4)
±12	3.1(2.8)	2.8(2.5)	2.3(2.1)	1.6(1.4)									(3)
±15 to	5.3(5.0)	4.7(4.5)	3.9(3.7)	2.9(2.7)		81	180	11 × 4 7/8 × 4 13/32	Δ	460	439	421	LND-P-152(4)
±12	4.6(4.4)	4.0(3.8)	3.3(3.1)	2.5(2.4)									(3)

- NOTES: (1) Includes fixed overvoltage protection.
 (2) All LX series models have fungus proofing standard and is included in model notation and price.
 (3) ±15 to ±12 Volts are dual tracking unit outputs.
 (4) Ratings in parenthesis for LD and LN series when cover is used.
 (A) All outputs continuously adjustable over entire range.
 (B) Current rating is from zero to I_{max} . With exception of LND Series, current rating applies over entire output voltage range.
 (C) LD, LC, LN, and LX Series power modules are available for operation at 360-440Hz. Consult factory for ratings and specifications. For 50Hz operation, derate LC Series by 10%; for LX Series delete 40°C rating.
 (D) Prices are U.S.A. list prices only. E.O.B. Melville, N.Y.; McAllen, Texas; Tucson, Arizona. All prices and specifications are subject to change without notice.

PART IV—ACCESSORIES



Lambda Overvoltage Protectors, Rack Adapters, Chassis Slides, Blank Panels and Filters

Choosing An Overvoltage Protector

The following overvoltage protectors have been designed specifically for use with these power supply series.

POWER SUPPLY SERIES	USE OV SERIES
LDS-(all 01, 02, 03 and 48V models)	ADJUSTABLE LHOV
LDS-P (12V-28V)	(4)
LDS-W (12V-28V)	(4)
LDS-X (12V-28V)	L-12A-OV
LDS-Y (12V-28V)	L-6A-OV
LOS-R (all models)	(4)
LOS-W	L-12A-OV
LOS-X	L-12A-OV
LOS-Y	L-6A-OV
LOS-Z	L-6A-OV
LOD-W	L-12A-OV
LOD-X	L-12A-OV
LOD-Y	L-12A-OV
LOD-Z	L-12A-OV
LOT-W	L-12A-OV (2 ea.)
LOT-X	L-12A-OV (2 ea.)

POWER SUPPLY SERIES	USE OV SERIES
LNS-P (all models)	(4)
LNS-W	(4)
LNS-X	L-12A-OV
LNS-Y	L-6A-OV
LNS-Z	L-6A-OV
LND-P	L-12A-OV
LND-W	L-12A-OV
LND-X	L-12A-OV
LND-Y	L-12A-OV
LND-Z	L-12A-OV
LYS-K	(4)
LYS-P	(4)
LYS-W	(4)
LYS-X	(4)
LYS-Y	L-12A-OV

NOTE: (1) SV and LND-MPU are standard with built-in OV included in price.

(2) Consult the factory for overvoltage protector selection for the LX and LC Series.

(3) These overvoltage protectors are designed for operation across the outputs of power supplies with foldback current limit only.

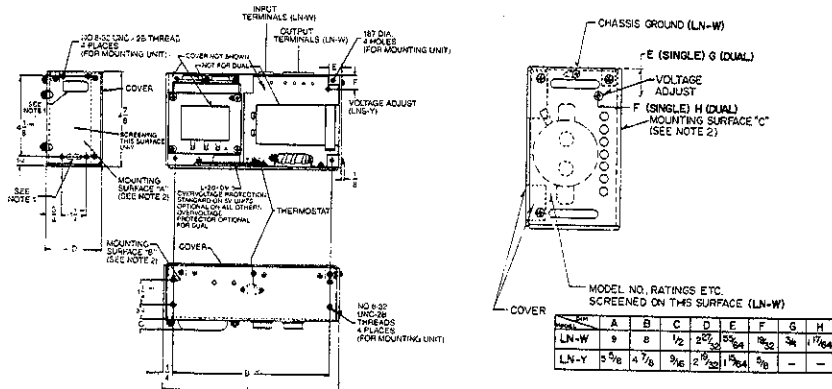
(4) Consult the factory for overvoltage protector selection for these power supplies.

(5) For a full line of UHD accessories and front panel hot pluggable racking system and accessories (including AC input modules and heat) see p. 110-111.

PART V — MECHANICAL DRAWINGS

LN SERIES

LN-W LN-Y



NOTES

1. CUSTOMER MUST PROVIDE CLEARANCE IN HIS MOUNTING SURFACE FOR VENT HOLES TO ALLOW FOR AIR CIRCULATION.
2. WHEN USING SURFACE "C" AS MOUNTING SURFACE, COVER MUST BE ASSEMBLED TO UNIT AFTER UNIT IS BOLTED DOWN FOR SURFACES "A" & "B". COVER MAY BE PRE-ASSEMBLED TO UNIT.
3. COVER SCREWS ARE INDICATED BY Ⓢ AND THEY MUST BE REMOVED BEFORE REMOVING COVER.

LNS-P LND-P

NOTES

1. CUSTOMER MOUNTING SCREWS MUST NOT PROTRUDE INTO POWER SUPPLY BY MORE THAN 1/4".
2. COVER SCREWS ARE INDICATED BY Ⓢ AND MUST BE REMOVED BEFORE COVER IS REMOVED (6 PLACES).
3. SIDE VIEWS DO NOT SHOW TRANSFORMER COIL PROTRUSION.

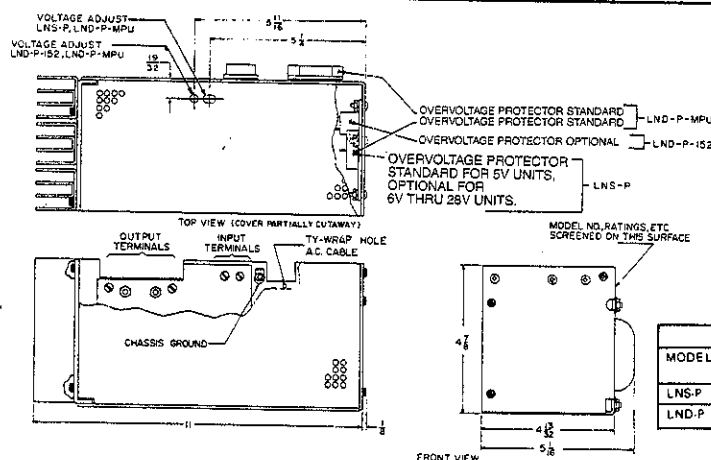
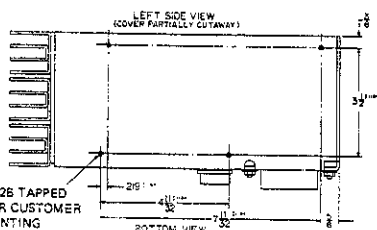
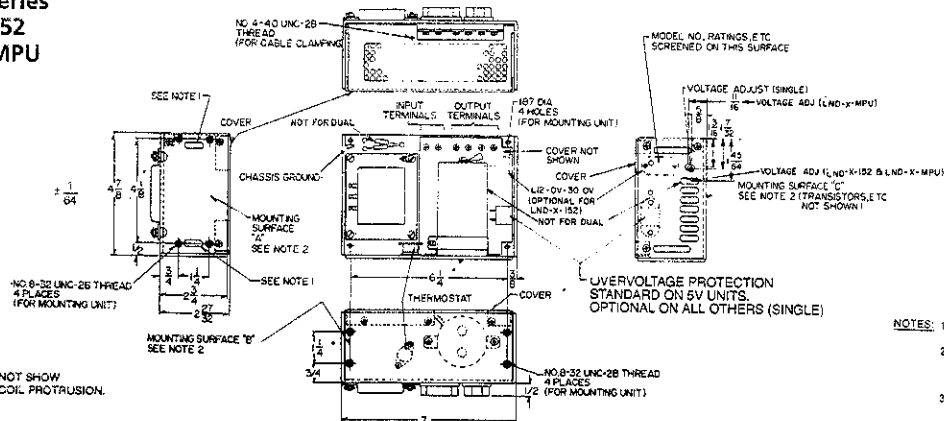


TABLE OF WEIGHTS		
MODEL	NET WT. (LBS)	SHIPPING WT. (LBS)
LNS-P	14	15 1/2
LND-P	15 1/2	17

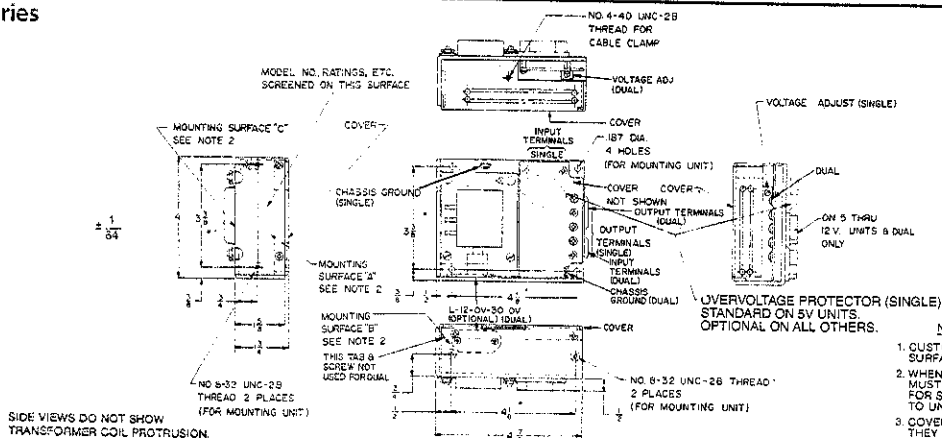
LNS-X Series LND-X-152 LND-X-MPU



NOTES

1. CUSTOMER MUST PROVIDE CLEARANCE IN HIS MOUNTING SURFACE FOR VENT HOLES TO ALLOW FOR AIR CIRCULATION.
2. WHEN USING SURFACE "C" AS A MOUNTING SURFACE, COVER MUST BE ASSEMBLED TO UNIT AFTER UNIT IS BOLTED DOWN FOR SURFACES "A" & "B". COVER MAY BE PRE-ASSEMBLED TO UNIT.
3. COVER SCREWS ARE INDICATED BY Ⓢ AND THEY MUST BE REMOVED BEFORE REMOVING COVER. (7 PLACES)

LN-Z Series



NOTES

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