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Find the *TDK-Lambda LNS-X-24* at our website: *Click HERE*

LN/LD Series

Low noise linear power supplies

Product Data | Models | Specifications | Similar Series

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.



Lowest Output Ripple & Noise

High Line & Load Stability

Rugged Construction

MIL-STD-810C Specifications

High Temperature Operation

Convection Cooling

5 Year Warranty

LN/LD Series Available Models

	OUTPUT	POWER	MAX CURRENT AMPS AT 30°	40°	50°	60°	71°	MODEL
Single Outputs	**5V**	14W	2.7	2.7	2.4	2.1	1.5	**LNS-Z-5-OV**
	5V	28W	5.4	5.4	4.6	3.8	2.8	**LNS-Y-5-OV**
	5V	45W	8.5	8.5	7.6	6.2	4.5	**LNS-X-5-OV**
	5V	63W	11.9	11.9	10.4	8.5	6.4	**LNS-W-5-OV**
	5V	110W	20.9	20.9	18.5	15.7	12.4	**LNS-P-5**
	12V	20W	1.55	1.55	1.45	1.4	1.2	**LNS-Z-12**
	12V	45W	3.6	3.6	3.15	2.6	2	**LNS-Y-12**
	12V	70W	5.5	5.5	4.7	3.8	2.8	**LNS-X-12**
	12V	91W	7.2	7.2	6.1	5	3.6	**LNS-W-12**
	12V	167W	13.3	13.3	11.8	9.5	6.95	**LNS-P-12**
	15V	20W	1.3	1.3	1.2	1.1	.9	**LNS-Z-15**
	15V	48W	3.1	3.1	2.8	2.35	1.8	**LNS-Y-15**
	15V	74W	4.7	4.7	4.1	3.35	2.4	**LNS-X-15**
	15V	103W	6.55	6.55	5.7	4.7	3.15	**LNS-W-15**
	15V	180W	11.4	11.4	10.1	8.1	6	**LNS-P-15**
	24V	20W	.81	0.81	0.68	0.55	.36	**LNS-Z-24**
	24V	53W	2.1	2.1	1.9	1.5	1	**LNS-Y-24**
	24V	82W	3.25	3.25	2.75	2	1.2	**LNS-X-24**
	24V	116W	4.6	4.6	3.9	3.1	2.1	**LNS-W-24**
	24V	217W	8.6	8.6	7.6	6.4	4.8	**LNS-P-24**
	28V	22W	.75	.75	.6	.45	.32	**LNS-Z-28**
	28V	53W	1.8	1.8	1.65	1.35	.9	**LNS-Y-28**
	28V	85W	2.9	2.9	2.5	1.5	1	**LNS-X-28**

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Dual Outputs							
	±12V to ±15V	15W	0.5	0.5	0.4	0.3	**LND-Z-152**
	±12V to ±15V	36W	1.2	1.0	0.8	0.5	**LND-Y-152**
	±12V to ±15V	63W	2.1	1.8	1.4	0.9	**LND-X-152**
	±12V to ±15V	90W	3	2.8	2.3	1.8	**LND-W-152**
	±12V to ±15V	150W	5	4.5	3.7	2.7	**LND-P-152**
Wide Range	**0-7V**	23.8W	3.4	2.85	1.8		**LDS-Y-01**
Adjustable Outputs	**0-7V**	28.7W	4.1	3.4	2.6		**LDS-X-01**
	0-7V	63W	9	8	7.1		**LDS-P-01**
	0-18V	32.4W	1.8	1.6	.9		**LDS-Y-02**
	0-18V	35.1W	1.95	1.6	1.3		**LDS-X-02**
	0-18V	77.4W	4.3	3.8	3.1		**LDS-P-02**
	0-32V	35.2W	1.1	.95	.6		**LDSY-03**
	0-32V	80W	2.5	2.4	2.2		**LDS-P-03**

For use witout cover increase output by 15%

LN/LD Series Specifications

AC Input	105-127VAC, 210-254VAC (by transformer tap change), 47-440Hz. With derating (consult factory).
EMI	MIL-I-6181D - Conducted and radiated EMI with one output terminal grounded.
DC Output Controls	LD Series: volt per volt.
Line Regulation	LD Series: 0.005% +0.5mV.
Load Regulation	LD Series: 0.005% +0.5mV.
Ripple and Noise	LD Series: 150uV RMS, 1mV pk-pk.
Overshoot	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.
Temperature Coefficient	LD Series: 0.01% + 10uV per °C.
Isolation	Minimum, 10 Megohm isolation from DC to ground at 750VDC.
Remote Sensing	Provision is made for remote sensing to eliminate the effect of power output lead resistance on DC regulation.
Resistive Programming	LD Series: 1000 ohms/volt.
Thermal Protection	Thermostat - automatically reset when overtemperature condition is eliminated.
Mounting	LN/LDS-Y, X, W . three mounting surfaces, three mounting positions.
Input and Output Connections	Heavy-duty screw terminals on printed circuit board.
Safety Agency Approval	UL 1950, CSA 950.
Warranty	5 years.

Similar Series

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