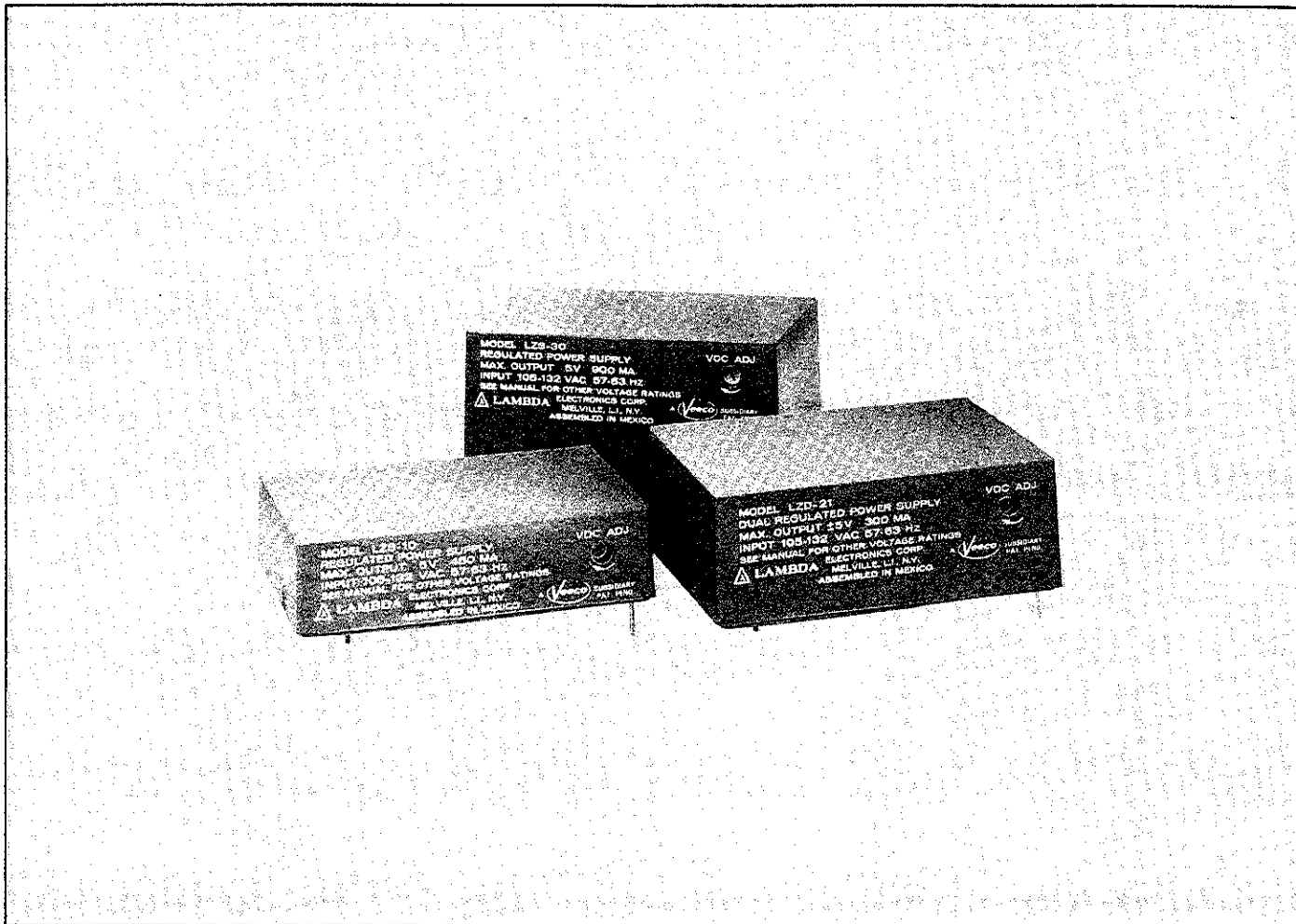


Lambda-PAK™ LZ series



Features—LZ series

Three power packages

Single, dual tracking outputs

Fully repairable

Impact resistant, flame retardant plastic housing

Foldback current limiting

Continuously adjustable output voltage

Multi-voltage rated

Ambient operating temperature

Continuous duty from 0°C to +50°C

Only repairable, plastic power supply offering 90-day guarantee that includes material and labor

Regulation

0.15% — line or load; models LZS-10, LZS-30, LZD-21 have load regulation of 0.15% + 5 mV.

Ripple and Noise

1.5 mV RMS, 5 mV, pk-pk.

Temperature Coefficient

0.03%/°C.

OVERSHOOT

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

Tracking Accuracy

2% absolute voltage difference for dual output models only.
0.2% change for all conditions of line, load and temperature.

Ambient Operating Temperature Range

Continuous duty from 0° C to + 50° C.

Wide AC Input Voltage Range

105 to 132 VAC, 57-63 Hz.

Storage Temperature Range

— 25° C to + 85° C.

Overload Protection

Fixed automatic electronic current limiting circuit limits the output current upon external overloads, including short circuit, thereby providing protection for load as well as power supply.

Options

AC Input

Add Suffix For Operation At:

—V 187-242 VAC, 47-63 Hz

Price Added for "V" option which is available for these models only

\$ 5	LZS-10, LZD-23 ¹
\$10	LZS-30, LZS-33, LZD-32, LZD-35

Derate current 10%.

Input & Output Connections

Printed circuit solder pins on lower surface of unit.

Controls

Screwdriver voltage adjustment over entire voltage range.

Mounting

Two 4 x 40 tapped holes on lower surface of LZ-10 series; three 4 x 40 tapped holes on lower surface LZ-20, and LZ-30 series. (Outline drawings see page 130)

Physical Data

Model	Weight (oz.)		Size (inches)
	net	ship	
LZ-10	10	18	2-1/2 x 3-1/2 x 7/8
LZ-20	17	25	2-1/2 x 3-1/2 x 1-1/4
LZ-30	24	32	2-1/2 x 3-1/2 x 1-7/8

90-day Guarantee

90-day guarantee includes labor as well as parts.

Accessories

See pages 66-67 for overvoltage protectors.

DUAL TRACKING OUTPUTS

MODEL	MAX. CURRENT (mA) AT 50° C	PKG. SIZE	PRICE QUANTITY		
			1	100	250
±5 VOLTS ADJ. ¹					
LZD-21	300	20	\$87	\$63	\$61
±6 VOLTS ADJ. ¹					
LZD-21	300	20	87	63	61
±10 VOLTS ADJ. ¹					
LZD-22	61	20	66	53	48
LZD-23	114	20	87	63	61
LZD-32	163	30	103	76	72
LZD-35	200	30	147	110	104
±12 VOLTS ADJ. ¹					
LZD-22	73	20	66	53	48
LZD-23	129	20	87	63	61
LZD-32	186	30	103	76	72
LZD-35	240	30	147	110	104
±15 VOLTS ADJ. ¹					
LZD-22	90	20	66	53	48
LZD-23	150	20	87	63	61
LZD-32	220	30	103	76	72
LZD-35	300	30	147	110	104

SINGLE OUTPUT

MODEL	MAX. CURRENT (mA) AT 50° C	PKG. SIZE	PRICE QUANTITY		
			1	100	250
5 VOLTS ADJ.¹					
LZS-10	450	10	\$59	\$43	\$38
LZS-30	900	30	103	76	72
6 VOLTS ADJ.¹					
LZS-10	450	10	59	43	38
LZS-30	900	30	103	76	72
10 VOLTS ADJ.¹					
LZS-11	225	10	59	43	38
LZD-21 ²	300	20	87	63	61
LZS-33	293	30	103	76	72
12 VOLTS ADJ.¹					
LZS-11	195	10	59	43	38
LZD-21 ²	300	20	87	63	61
LZS-33	336	30	103	76	72
15 VOLTS ADJ.¹					
LZS-11	150	10	59	42	38
LZS-33	400	30	103	76	72
20 VOLTS ADJ.¹					
LZD-22 ²	61	20	66	53	48
LZD-23 ²	114	20	87	63	61
LZD-32 ²	163	30	103	76	72
24 VOLTS ADJ.¹					
LZD-22 ²	73	20	66	53	48
LZD-23 ²	129	20	87	63	61
LZD-32 ²	186	30	103	76	72
LZD-35 ²	240	30	147	110	104
28 VOLTS ADJ.¹					
LZD-22 ²	84	20	66	53	48
LZD-23 ²	143	20	87	63	61
LZD-32 ²	208	30	103	76	72
LZD-35 ²	280	30	147	110	104

NOTES: 1. All LZ models are adjustable between the following limits: LZS-10 2.5 to 6 V, LZS-11 8.0 to 15 V, LZS-30 2.5 to 6 V, LZS-33 8.0 to 15 V, LZD-21 ±2.5 to ±6 V, LZD-22 ±8.0 to ±15 V, LZD-23 ±8.0 to ±15 V, LZD-32 ±8.0 to 15 V, LZD-35 ±8.0 to 15 V. Contact factory for current ratings at voltage setting not indicated in above tables.

2. Single output ratings for dual-output models connected in series.

PART IV—DIMENSIONAL DRAWINGS

FULL-RACK POWER SUPPLIES

PACKAGE SIZES F, G AND LZ SERIES

MODULAR SUPPLIES

LZ Series

MODEL	A	B	C	D	E
LZS-10 SERIES	$\frac{7}{8}$	$\frac{17}{32}$	$\frac{3}{8}$	—	—
LZ-20 SERIES	$1\frac{1}{4}$	$\frac{17}{32}$	$\frac{3}{8}$	—	—
LZS-30 LZD-31 SERIES	$\frac{7}{8}$	$\frac{17}{32}$	$\frac{3}{8}$	—	—

