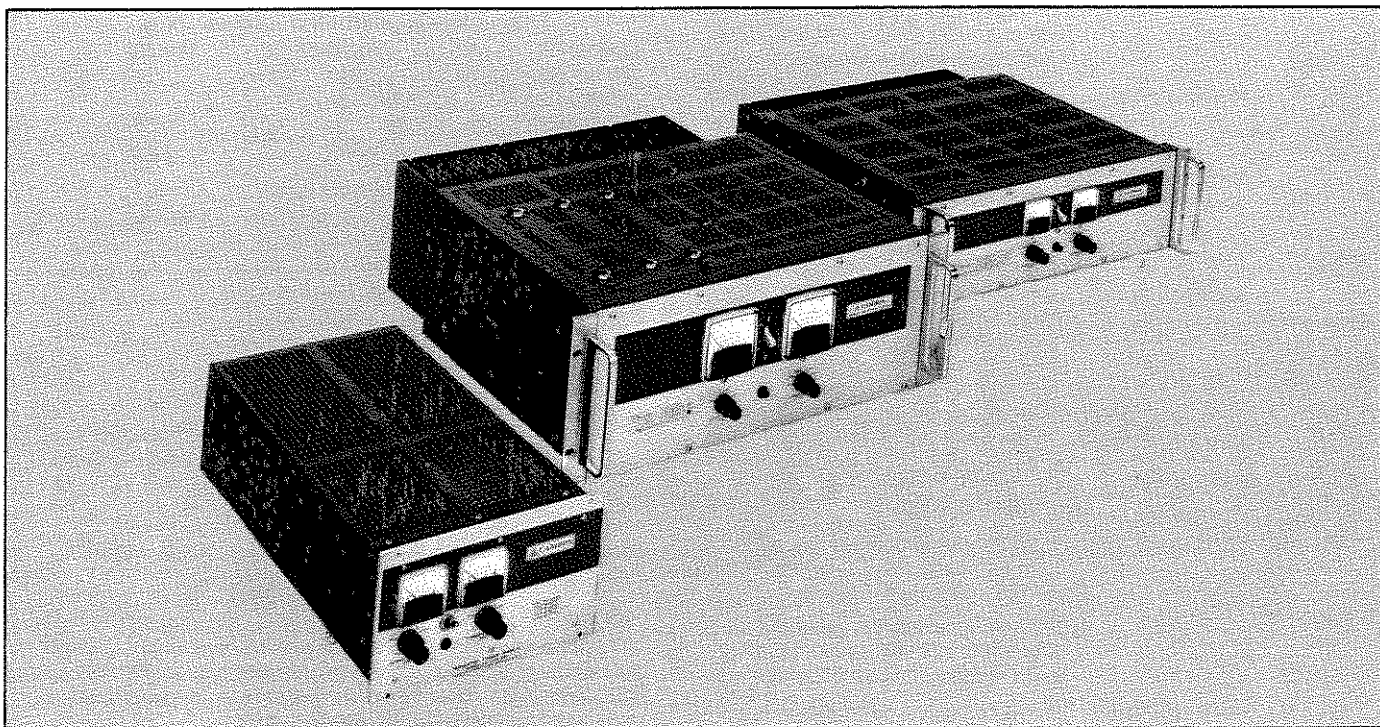


# PART III—LAB, TEST EQUIPMENT AND SYSTEM POWER SUPPLIES

## Lambda LK Series



### Voltage and Current Ratings

MODEL	REGULATION	RIPPLE (RMS)	MAX. CURRENT, AMPS AT AMBIENT OF: <sup>(1)</sup>				DIMENSIONS	PRICE
			40°C	50°C	60°C	71°C		
<b>0-20 VOLTS</b>								
LK-340-A-FM	0.015% or 1 mV	500 $\mu$ V	8.0	7.0	6.1	4.9	5-3/16" x 8-3/8" x 16"	\$1188
LK-341-A-FM	0.015% or 1 mV	500 $\mu$ V	13.5	11.0	10.0	7.7	5-3/16" x 8-3/8" x 16"	1493
LK-350-FM	0.015% or 1 mV	500 $\mu$ V	35.0	31.0	26.0	20.0	5-3/16" x 19" x 16-1/2"	2071
LK-360-FM*	0.015% or 1 mV	500 $\mu$ V	66.0	59.0	50.0	40.0	7" x 19" x 8-1/2"	3226
<b>0-36 VOLTS</b>								
LK-342-A-FM	0.015% or 1 mV	500 $\mu$ V	5.2	5.0	4.5	3.7	5-3/16" x 8-3/8" x 16"	1188
LK-343-A-FM	0.015% or 1 mV	500 $\mu$ V	9.0	8.5	7.6	6.1	5-3/16" x 8-3/8" x 16"	1493
LK-351-FM	0.015% or 1 mV	500 $\mu$ V	25.0	23.0	20.0	15.0	5-3/16" x 19" x 16-1/2"	2071
LK-361-FM*	0.015% or 1 mV	500 $\mu$ V	48.0	43.0	36.0	30.0	7" x 19" x 18-1/2"	3226
<b>0-60 VOLTS</b>								
LK-344-A-FM	0.015% or 1 mV	500 $\mu$ V	4.0	3.5	3.0	2.5	5-3/16" x 8-3/8" x 16"	1250
LK-345-A-FM	0.015% or 1 mV	500 $\mu$ V	6.0	5.2	4.5	4.0	5-3/16" x 8-3/8" x 16"	1493
LK-352-FM	0.015% or 1 mV	500 $\mu$ V	15.0	14.0	12.5	10.0	5-3/16" x 19" x 16-1/2"	2233
LK-362-FM*	0.015% or 1 mV	500 $\mu$ V	25.0	24.0	22.0	19.0	7" x 19" x 18-1/2"	3226

\*AC INPUT 188-238 VAC STANDARD

### OVERVOLTAGE PROTECTOR ACCESSORIES

ADJ. VOLT. RANGE VDC	MODEL	FOR USE WITH	PRICE
3-24	LH-OV-4	LK-340-A-FM, 341-A-FM	\$58
3-47	LH-OV-5	LK-342-A-FM, 343-A-FM	58
3-70	LH-OV-6	LK-344-A-FM, 345-A-FM	58
3-70	Add "OV" to Model No.	LK-350-FM to 352-FM	140
3-70		LK-360-FM to 362-FM	190

NOTES:

<sup>(1)</sup> Current rating applies over entire voltage range.

<sup>(2)</sup> Chassis slides for full models. See page 106.

# Features—LK Series

Convection-cooled, no blower, no external heat sinking  
 No voltage spikes or overshoot on turn-on, turn-off or power failure  
 Series/Parallel operation  
 Constant voltage/constant current  
 Remotely programmable all models, by voltage or resistance

Meet mil, environment specs:  
 Vibration: MIL-T-4807A  
 Shock: MIL-E-4970A Proc. 1 & 2  
 Humidity: MIL-STD-819 Meth. 507  
 Temp. Shock: MIL-E-5272C (ASG) Proc. 1  
 Altitude: MIL-E-4970A (ASG) Proc. 1

## Specifications

### DC Output

Voltage ranges shown in tables.

### REGULATED VOLTAGE

regulation, line  
 or load ..... 0.015% or 1 mV whichever is greater for line variations from 105-132 VAC, (or 188-238 VAC LK-360-FM series); or for load changes from no load to full load.

remote programming  
 resistance ..... 200 ohms/volt nominal

remote programming  
 voltage ..... volt per volt

ripple and noise ..... 500  $\mu$ V RMS; with either pos. or neg. terminal grounded.

temperature  
 coefficient ..... 0.015%/°C

### Constant Current

(Current regulated line and load.)

### AUTOMATIC CROSSOVER

voltage range ..... as shown in tables.

current range ..... minimum—5% of 40°C rating.  
 maximum—as shown in tables.

regulation, line ..... less than 10 mA or 0.1% whichever is greater for Input Variations of 105-132 VAC (188-238 VAC LK-360-FM series).

regulation, load ..... less than 10 mA or 0.1% whichever is greater—from 0 to rated VDC load voltage change.

### AC Input

105-132 VAC, 47-63 Hz. (188-238 VAC, 47-63 Hz LK-360-FM Series only). For operation at 50 Hz derate output current by 10%. 187-242 VAC, see AC option.

### Ambient Operating Temperature Range

Continuous duty from 0°C to +71°C with load current ratings shown in tables.

### Storage Temperature Range

—55°C to +85°C.

### Overload Protection

#### THERMAL

Thermostat; automatic reset when over-temp. condition is removed.

#### ELECTRICAL

External overload protection: adjustable, automatic electronic current limiting circuit limits the output current to the preset value, thereby providing protection for load as well as power supply. Current limiting settability to 105% of rated current. Internal failure protection: provided by fuse.

### Input and Output Connections

Terminal block on rear of chassis.

### Meters

Voltmeter and ammeter on all models.

### Controls

#### DC Output Controls

Coarse and fine voltage adjust and coarse and fine current adjust on front panel.

#### Power

On-off switch, front panel, —½ rack models; circuit breakers, front panel—full-rack models.

#### Remote Sensing

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

### Physical Data

Series	Weight		Size Inches
	Lbs. Net	Lbs. Ship	
LK-340-A-FM	35	41	5-3/16 x 8-3/8 x 16
LK-350-A-FM	95	125	5-3/16 x 19 x 16-1/2
LK-360-A-FM	135	170	7 x 19 x 18-1/2

### Panel Finish

Brushed aluminum clear anodized panels with grey inlay (standard).

### Accessories

Rack adapters LRA-1, LRA-2 (LK-340 series only) chassis slides, over-voltage protectors, pot covers, blank panels. See page 106.

### Options

#### AC Input

For LK-340, LK-350 Series Only.

Add Suffix	For Operation at:	Price Qty. 1-14	Price Single Model Qty. 15 & up	Price Mixed Model Qty. 15 & up
—V	187-242 VAC 47-63 Hz	12%	10%	12%
—V1	205-265 VAC 47-63 Hz	12%	10%	12%

#### For LK-360 Series Only

—V1	205-265 VAC 47-63 Hz	12%	10%	12%
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For 50 Hz operation derate current 10% for all models.

### Fungus Proofing

Add suffix "R" to model number and add 10% to price.

### 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.