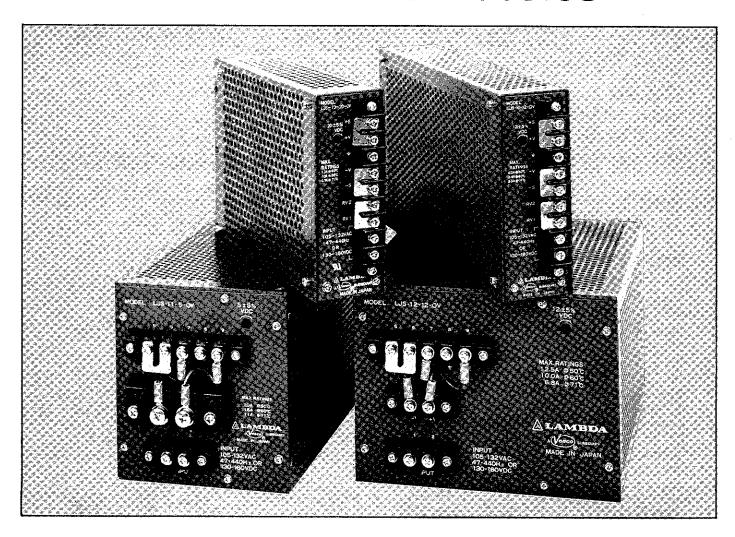
Lambda LJ and LJA series



Features — LJ and LJA series

DC Input 145 VDC ±10% 42-58 VDC ("D" models only)

5-year guaranteed switching power supplies

57 models, 12 packages starting from 5V @ 5 amp

Efficiency 70%

AC input 105-132 VAC or 187-265 VAC (LJA Series)

Lambda engineering assures performance reproducibility and power supplies are designed for large volume production

Lambda built-in hybrid overvoltage protector shuts down inverters and crowbars output voltage

Isolated remote turn-on turn-off capability (LJ models only)

Serviceability-designed for ease of field repair

Rugged convection-cooled chassis

Heavy-duty barrier strip

Recognized ("D" option under evaluation)

CSA Certified ("D" option and "AV" option under evaluation)

Specifications of LJ and LJA series

DC Output

Voltage range: refer to tables

regulation, line0.4% for line variations from

105-132 VAC.

regulation, load0.4% for load variations from 0 to

full load.

remote programming

resistance1000 ohms/volt nominal

remote programming

voltagevolt/volt

ripple and noise 10 mV RMS, 50 mV p-p for 5 V and

6 V models; 15 mV RMS, 100 mV

p-p for 12 V to 28 V

temperature

coefficient0.03%/°C

AC Input

hold-up time16 msec min at low line and full

load, Vo max.

DC Input

145 VDC \pm 10% (not for V option units).

42-58 VDC "D" models only.

Overshoot

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

Efficiency

Greater than 70% (60% for LJS-13 and LJS-13A).

Ambient Operating Temperature Range

Continuous duty from 0°C to 71°C with load current ratings as shown in tables. No derating 0° to 50°C.

Storage Temperature Range

-55° C to 85° C.

Overload Protection

ELECTRICAL

External overload protection: automatic factory preset electronic current limiting circuit limits the output current thereby providing protection for the load as well as the power supply.

Internal failure protection: provided by fuse.

Input and Output Connections

Heavy duty terminal block on front of chassis.

Controls

DC output controls.

Simple screwdriver voltage adjustment over the voltage range.

Remote Sensing

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

Remote Shutdown

Capability of remote on-off control for either positive ground or negative ground output. (not on LJA models).

Overvoltage Protection

Built in fixed overvoltage protection on all model outputs.

Mounting

One mounting surface.

Options

AC Input	d odels only)	Price	Price Mixed Models	Price Single Model	
Model No.	For Opera-	Qty.	Qty. 15	Qty. 15	
	tion at:	114	and up	and up	
—AV	187-265 VAC	12%	12%	10%	
	47-440 Hz	or \$30**	or \$30**	or \$30**	

*For example: LJ-13-AV **Whichever is greater.

See Physical Data below. The LJA and LJ-12 "V" option supplies sizes are larger than equivalent standard power supplies.

Physical Data

Package Model	Weight net (lbs)	Ship (lbs)	Size (inches)
LJ-13	1.6	2.4	4-3/4 × 1-25/32 × 6-5/16
LJ-13-AV	1.5	2.4	$1-21/32 \times 4-17/32 \times 7-31/64$
LJS-13A	1.5	2.4	$4-17/32 \times 1-11/16 \times 7-13/64$
LJ-10	2.0	3.0	$4-3/4 \times 1-25/32 \times 7-7/8$
LJ-10-AV	1.7	2.7	$1-31/32 \times 4-17/32 \times 8-21/32$
LJS-10A	1.7	2.7	$4-17/32 \times 2-3/64 \times 7-13/64$
LJ-11	5.5	6.3	$4-3/4 \times 4-5/16 \times 7-15/16$
LJ-11-AV	3.75	5.0	$3-9/64 \times 4-17/32 \times 8-21/32$
LJS-11A	3.75	5.0	4-17/32 × 3-63/64 × 7-13/64
LJ-12	7.0	7.5	$4-3/4 \times 6-1/4 \times 7-15/16$
LJ-12-AV	5.5	6.75	$4-17/32 \times 4-19/32 \times 8-21/32$
LJS-12A	5.5	6.75	$4-17/32 \times 6-7/32 \times 7-13/64$

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.

Racognized ("D" option under evaluation) CSA Certified ("D" option and "AV" option under evaluation)

5 year guaranteed switching selector guide

AC input, single output fixed voltage Models LR, LGA, LJ and LJA

MODEL REGULTON RIPPLE APPLE		•				COMPLETE ELECT.					COMPLETE		
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LISTISSOV	VOLTS + 5%	ADI	The extract	1 1 2 2	San Allen V	I i har in the	4 (4)	100			7 8 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	FNIC	
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LIS-198-DV	LJS-13A-5-OV	0.4%. 0.4%										\$22	
\$\text{US-176-EOV}\$ 0.4% 0.4% 10 \ 0.56 \ 10.0 \ 10	LJS-10-5-OV									4914/02/X 1-11/10 X 7-13/04		24	
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IS-13A-15-OV 0.4%, 0.4% 15 4.0 4.0 2.8 1.6 13 13A 4-17/32 x 1-11/16 x 7-13/64 111 248 IS-10A-15-OV 0.4%, 0.4% 15 5.5 5.5 3.8 2.2 13 10A 4-17/32 x 2-3/64 x 7-13/64 111 283 IS-11-15-OV 0.4%, 0.4% 15 6.7 6.7 5.3 3.7 13 11 4-3/4 x 4-5/16 x 7-15/16 112 398 IS-11-15-OV 0.4%, 0.4% 15 9.4 9.4 6.5 3.7 13 11A 4-17/32 x 3-63/64 x 7-13/64 110 387 IS-12-15-OV 0.4%, 0.4% 15 10.0 10.0 8.0 5.5 13 12 4-3/4 x 6-1/4 x 7-15/16 112 475	LJS-10-15-OV												
IS-10A-15-OV 0.4%, 0.4% 15 5.5 5.5 3.8 2.2 13 10A 4-17/32 x 2-3/64 x 7-13/64 111 28 15-11-15-OV 0.4%, 0.4% 15 6.7 6.7 5.3 3.7 13 11 4-3/4 x 4-5/16 x 7-15/16 112 396 15-11A-15-OV 0.4%, 0.4% 15 9.4 9.4 6.5 3.7 13 11A 4-17/32 x 3-63/64 x 7-13/64 110 387 15-12A-15-OV 0.4%, 0.4% 15 10.0 10.0 8.0 5.5 13 12 4-3/4 x 6-1/4 x 7-15/16 112 475 13-20-15-OV 0.4% 0.4% 15 10.0 10.0 8.0 5.5 13 12 4-3/4 x 6-1/4 x 7-15/16 112 475 13-20-15-OV 0.4% 0.4% 15 10.0 10.0 8.0 5.5 13 12 4-3/4 x 6-1/4 x 7-15/16 112 475 13-20-15-OV 0.4% 0.4% 15 10.0 10.0 8.0 5.5 13 12 4-3/4 x 6-1/4 x 7-15/16 112 475 13-20-15-OV 0.4% 0.4% 15 10.0 10.0 8.0 5.5 13 12 4-3/4 x 6-1/4 x 7-15/16 112 475 13-20-15-OV 0.4% 0.4% 15 10.0 10.0 8.0 5.5 13 12 4-3/4 x 6-1/4 x 7-15/16 112 475 13-20-15-OV 0.4% 0.4% 15 10.0 10.0 8.0 5.5 13 12 4-3/4 x 6-1/4 x 7-15/16 112 475 13-20-15-OV 0.4% 0.4% 15 10.0 10.0 8.0 5.5 13 12 4-3/4 x 6-1/4 x 7-15/16 112 475 13-20-15-OV 0.4% 0.4% 15 10.0 10.0 8.0 5.5 13 12 4-3/4 x 6-1/4 x 7-15/16 112 475 13-20-15-OV 0.4% 0.4% 15 10.0 10.0 8.0 15.5 13.0 12 4-3/4 x 6-1/4 x 7-15/16 112 475 13-20-15-OV 0.4% 0.4% 15 10.0 10.0 8.0 15.5 13.0 12 4-3/4 x 6-1/4 x 7-15/16 112 475 13-20-15-OV 0.4% 0.4% 15 10.0 10.0 8.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15	LJS-13A-15-OV		15	4.0							–		
IS-11-15-OV 0.4%, 0.4% 15 6.7 6.7 5.3 3.7 13 11 4-3/4 x 4-5/16 x 7-15/16 112 393 IS-11A-15-OV 0.4%, 0.4% 15 9.4 9.4 6.5 3.7 13 11A 4-17/32 x 3-63/64 x 7-13/64 110 387 IS-12-15-OV 0.4%, 0.4% 15 10.0 10.0 8.0 5.5 13 12 4-3/4 x 6-1/4 x 7-15/16 112 475	LJS-10A-15-OV			5.5						4-17/32 x 2-3/64 x 7-13/64			
IS-11A-15OV 0.4%, 0.4% 15 9.4 9.4 6.5 3.7 13 11A 4-17/32 x 3-63/64 x 7-13/64 110 387 IS-12-15-OV 0.4%, 0.4% 15 10.0 10.0 8.0 5.5 13 12 4-3/4 x 6-1/4 x 7-15/16 112 475	JS-11-15-0V					5.3							
S-124-15-0V 0.4% 0.4% 15 14.0 14.0 0.0 0.0 0.0 15 12 4-3/4 X 6-1/4 X /-15/16 112 475	JS-11A-15-OV	0.4%, 0.4%	15	9.4	9.4							387	
IS-120-18-OV 0.49/ 0.49/ 15 44/0 4/0 00 ##	JS-12-15-0V						5.5	13	12	4-3/4 x 6-1/4 x 7-15/16	112	475	
	JS-12A-15-OV	0.4%, 0.4%	15	14.0	14.0	9.8						475	
		•										•	
										•			

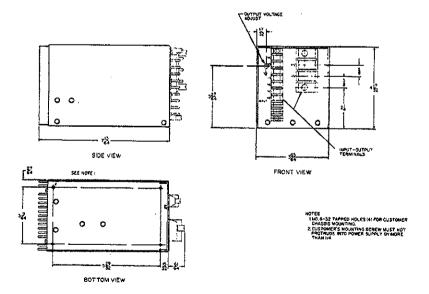
5-year guaranteed switching selector guide

AC input, single output fixed voltage Models LR, LGA, LJ and LJA

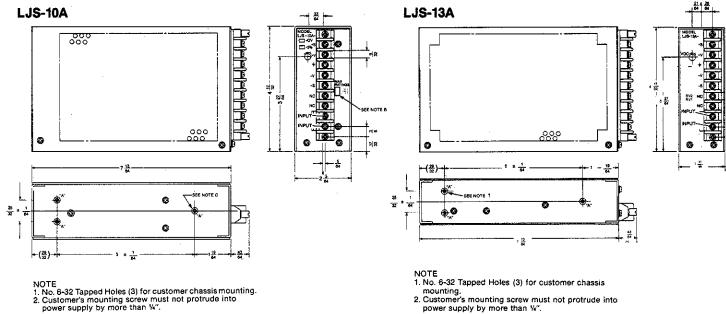
			······································			COMPLETE			COMPLETE		
MODEL	REGULATION (line, load)	RIPPLE (mV RMS)			MBIENT OF 0°C. 71°C	ELECT. SPEC. PG.	PKG. SIZE	DIMENSIONS (inches)	MECH. SPEC. PG	PRICE	
O VOLTS ± 5%	o ADJ.										
LJS-12A-28-0V		(- 4 5 3 7)	106 1	0.6	7.4 4.2	13	12A	4-17/32 x 6-7/32 x 7-13/64	Colonal Co.	~ 490	
	endan tanasti is s	an with a set	ur s er ri, gras	27.7 · W 9 · 4	St. T. Mar. A. T. T. F.						
			T. X1	and the second	en e	v ,					
24 VOLTS ± 5%	6 ADJ.								·		
LJS-13-24-OV	0.4%, 0.4%	15	1.0	1.0	0.8 0.6	13	13	4-3/4 x 1-25/32 x 6-5/16	112	221	
LJS-10-24-OV	0.4%, 0.4%	15			1.7 1.2	13	10	4-3/4 x 1-25/32 x 7-7/8	112	315	
LJS-13A-24-OV	0.4%, 0.4%	15		3.0	2.1 1.2	13	13A	4-17/32 x 1-11/16 x 7-13/64	111	246	
LJS-10A-24-OV	0.4%, 0.4%	15	3.6		2.5 1.4	13	10A	4-17/32 x 2-3/64 x 7-13/64	111	283	
LJS-11-24-OV	0.4%, 0.4%	15	4.2		3.3 2.3	13	11	4-3/4 × 4-5/16 × 7-15/16	112	393	
LJS-11A-24-OV	0.4%, 0.4%	15	5.8	5.8	4.0 2.3	13	11A	4-17/32 x 3-63/64 x 7-13/64	110	387	
LJS-12-24-OV	0.4%, 0.4%	15			5.0 3.4	13	12	4-3/4 x 6-1/4 x 7-15/16	112	475	
				••	• • • • • • • • • • • • • • • • • • • •						
LJS-12A-24-0V	0.4%, 0.4%	15	9.0	9.0	6.3 3.6	13	12A	4-17/32 x 6-7/32 x 7-13/64	111	490	
28 VOLTS ±5% LJS-13-28-0V LJS-13-28-0V LJS-13A-28-0V LJS-10A-28-0V LJS-11-28-0V LJS-11-28-0V LJS-12-28-0V LJS-12-28-0V	o ADJ 0:4%, 0:4%, 0:4%, 0:4%, 0:4%, 0:4%, 0:4%, 0:4%, 0:4%, 0:4%, 0:4%, 0:4%, 0:4%, 0:4%,	15 15 15 15 15 15 15	2.8 2.5 3.1 3.6 5.0 5.4	1.8 2:5 3.1 3.6 5:0 5.4	0.7. 0.5. 1.4 1.0 1.8 1.0 2.1 1.2 2.9 2.0 3.5 2.0 4.3 3.0	13 13 13 13 13	11A 12	4-3/4 × 1-25/32 × 6-5/16 4-3/4 × 1-25/32 × 7-7/8 4-17/32 × 1-11/16 × 7-13/64 4-17/32 × 2-3/64 × 7-13/64 4-3/4 × 4-5/16 × 7-15/16 4-17/32 × 3-63/64 × 7-13/64 4-3/4 × 6-1/4 × 7-15/16 4-17/32 × 6-7/32 × 7-13/64	112 112 112 110 112 110	22: 31: 24: 28: 39: 36: 47:	
817 - 2 7 97767	Carrier ye (1979) ari	tropic si	- 10 - 11 - 11 - 11	<u> </u>	<u> </u>		<u>in two ne</u>	- <u>2.8 (1944 - 1945 - 1946 - 19</u>			

PART IV—DIMENSIONAL DRAWINGS LGS-FA and LJS-11A POWER SUPPLIES

LJS-11A Series

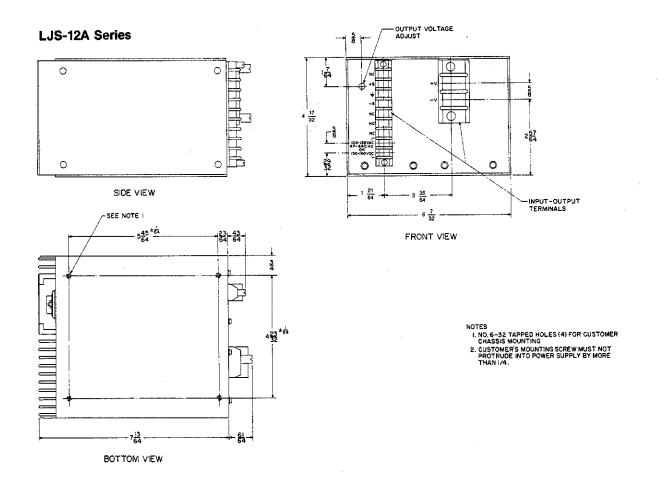


PART IV—DIMENSIONAL DRAWINGS LJS AND LJA SERIES POWER SUPPLIES

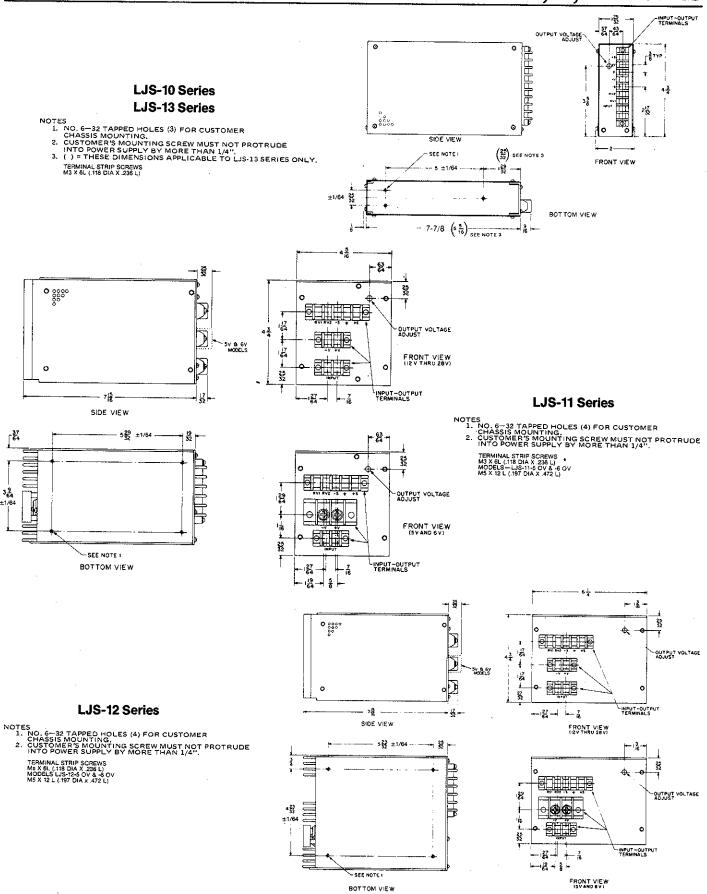


mounting.

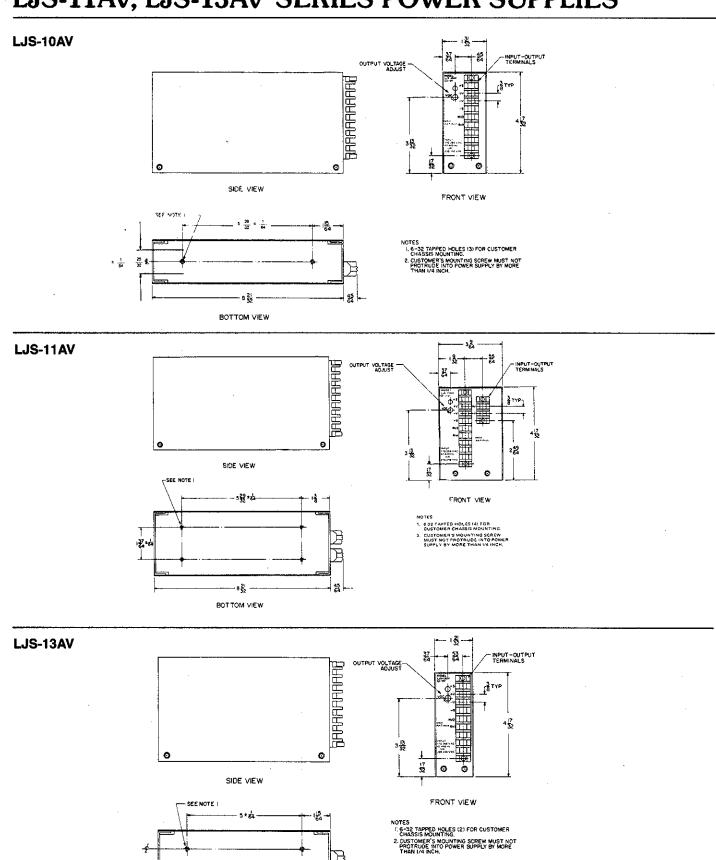
2. Customer's mounting screw must not protrude into power supply by more than %".



PART IV—DIMENSIONAL DRAWINGS MODULAR SUPPLIES PACKAGE SIZES 10,11,12 AND 13



PART IV—DIMENSIONAL DRAWINGS LJS-10AV, LJS-11AV, LJS-13AV SERIES POWER SUPPLIES



----- 731 ----BOTTOM VIEW