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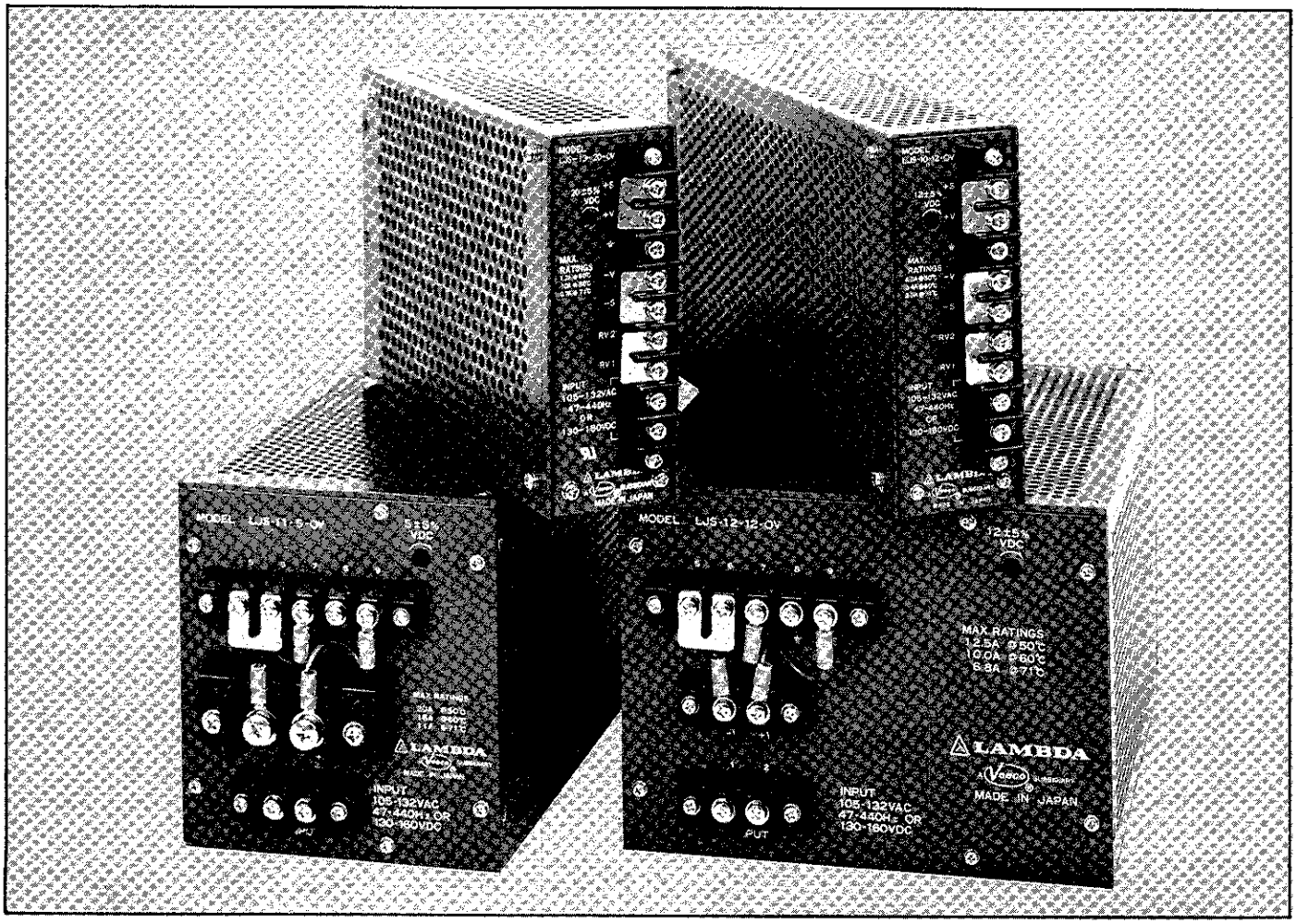
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Find the *TDK-Lambda LJS-11-5-OV* at our website: *Click HERE*

# 5 YEAR GUARANTEED SWITCHING

# 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)



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# Specifications of LJ and LJA series

**DC Output**
Voltage range: refer to tables

regulation, line .....0.4% for line variations from 105-132 VAC.
regulation, load .....0.4% for load variations from 0 to full load.
remote programming resistance .....1000 ohms/volt nominal
remote programming voltage .....volt/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 coefficient .....0.03%/° C

**AC Input**
line .....105-132 VAC 47-440 Hz
hold-up time .....16 msec min at low line and full load, Vo max.

**DC Input**
145 VDC ± 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**
(LJ A models only)

| Model No. | For Operation at: | Price Qty. 114 | Price Mixed Models Qty. 15 and up | Price Single Model Qty. 15 and up |
|---|---|---|---|---|
| —AV | 187-265 VAC 47-440 Hz | 12% or $30** | 12% or $30** | 10% 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 × 4-17/32 × 7-31/64 |
| LJS-13A | 1.5 | 2.4 | 4-17/32 × 1-11/16 × 7-13/64 |
| LJ-10 | 2.0 | 3.0 | 4-3/4 × 1-25/32 × 7-7/8 |
| LJ-10-AV | 1.7 | 2.7 | 1-31/32 × 4-17/32 × 8-21/32 |
| LJS-10A | 1.7 | 2.7 | 4-17/32 × 2-3/64 × 7-13/64 |
| LJ-11 | 5.5 | 6.3 | 4-3/4 × 4-5/16 × 7-15/16 |
| LJ-11-AV | 3.75 | 5.0 | 3-9/64 × 4-17/32 × 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 × 6-1/4 × 7-15/16 |
| LJ-12-AV | 5.5 | 6.75 | 4-17/32 × 4-19/32 × 8-21/32 |
| LJS-12A | 5.5 | 6.75 | 4-17/32 × 6-7/32 × 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.

**Recognized ("D" option under evaluation)**

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



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# 5 year guaranteed switching selector guide

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

| MODEL | REGULATION (line, load) | RIPPLE (mV RMS) | MAX AMPS AT AMBIENT OF 40°C | 50°C | 60°C | 71°C | COMPLETE ELECT. SPEC. PG | PKG. SIZE | DIMENSIONS (inches) | COMPLETE MECH. SPEC. PG | PRICE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **5 VOLTS ±5% ADJ.** | | | | | | | | | | | |
| LJS-13-5-OV | 0.4%, 0.4% | 10 | 5.0 | 5.0 | 4.0 | 2.8 | 13 | 13 | 4-3/4 x 1-25/32 x 6-5/16 | 112 | $221 |
| LJS-13A-5-OV | 0.4%, 0.4% | 10 | 10.0 | 10.0 | 7.0 | 4.0 | 13 | 13A | 4-17/32 x 1-11/16 x 7-13/64 | 111 | 246 |
| LJS-10-5-OV | 0.4%, 0.4% | 10 | 10.0 | 10.0 | 8.0 | 5.5 | 13 | 10 | 4-3/4 x 1-25/32 x 7-7/8 | 112 | 315 |
| LJS-10A-5-OV | 0.4%, 0.4% | 10 | 15.0 | 15.0 | 10.5 | 6.0 | 13 | 10A | 4-17/32 x 2-3/64 x 7-13/64 | 111 | 283 |
| LJS-11-5-OV | 0.4%, 0.4% | 10 | 20.0 | 20.0 | 16.0 | 11.0 | 13 | 11 | 4-3/4 x 4-5/16 x 7-15/16 | 112 | 393 |
| LJS-11A-5-OV | 0.4%, 0.4% | 10 | 25.0 | 25.0 | 17.5 | 10.0 | 13 | 11A | 4-17/32 x 3-63/64 x 7-13/64 | 110 | 387 |
| LJS-12-5-OV | 0.4%, 0.4% | 10 | 30.0 | 30.0 | 24.0 | 16.5 | 13 | 12 | 4-3/4 x 6-1/4 x 7-15/16 | 112 | 475 |
| LJS-12A-5-OV | 0.4%, 0.4% | 10 | 38.0 | 38.0 | 26.6 | 15.2 | 13 | 12A | 4-17/32 x 6-7/32 x 7-13/64 | 111 | 490 |
| **6 VOLTS ±5% ADJ.** | | | | | | | | | | | |
| LJS-13A-6-OV | 0.4%, 0.4% | 10 | 8.5 | 8.5 | 6.0 | 3.4 | 13 | 13A | 4-17/32 x 1-11/16 x 7-13/16 | 111 | 246 |
| LJS-10A-6-OV | 0.4%, 0.4% | 10 | 13.0 | 12.0 | 9.1 | 5.20 | 13 | 10A | 4-17/32 x 2-3/64 x 7-13/64 | 111 | 283 |
| LJS-11-6-OV | 0.4%, 0.4% | 10 | 16.7 | 16.7 | 13.3 | 9.20 | 13 | 11 | 4-3/4 x 4-5/16 x 7-15/16 | 112 | 393 |
| LJS-12A-6-OV | 0.4%, 0.4% | 10 | 32.0 | 32.0 | 22.4 | 12.8 | 13 | 12A | 4-17/32 x 6-7/32 x 7-13/64 | 111 | 490 |
| **12 VOLTS ±5% ADJ.** | | | | | | | | | | | |
| LJS-13-12-OV | 0.4%, 0.4% | 15 | 2.0 | 2.0 | 1.7 | 1.1 | 13 | 13 | 4-3/4 x 1-25/32 x 6-5/16 | 112 | 221 |
| LJS-10-12-OV | 0.4%, 0.4% | 15 | 4.2 | 4.2 | 3.4 | 2.3 | 13 | 10 | 4-3/4 x 1-25/32 x 7-7/8 | 112 | 315 |
| LJS-13A-12-OV | 0.4%, 0.4% | 15 | 5.0 | 5.0 | 3.5 | 2.0 | 13 | 13A | 4-17/32 x 2-3/64 x 7-13/64 | 111 | 246 |
| LJS-10A-12-OV | 0.4%, 0.4% | 15 | 6.8 | 6.8 | 4.7 | 2.7 | 13 | 10A | 4-7/32 x 2-3/64 x 7-13/64 | 111 | 283 |
| LJS-11-12-OV | 0.4%, 0.4% | 15 | 8.3 | 8.3 | 6.6 | 4.5 | 13 | 11 | 4-3/4 x 4-5/16 x 7-15/16 | 112 | 393 |
| LJS-11A-12-OV | 0.4%, 0.4% | 15 | 11.5 | 11.5 | 8.0 | 4.6 | 13 | 11A | 4-17/32 x 3-63/64 x 7-13/64 | 110 | 387 |
| LJS-12-12-OV | 0.4%, 0.4% | 15 | 12.5 | 12.5 | 10.0 | 6.85 | 13 | 12 | 4-3/4 x 6-1/4 x 7-15/16 | 112 | 475 |
| LJS-12A-12-OV | 0.4%, 0.4% | 15 | 17.0 | 17.0 | 11.9 | 6.8 | 13 | 12A | 4-17/32 x 6-7/32 x 7-13/64 | 111 | 490 |
| **15 VOLTS ±5% ADJ.** | | | | | | | | | | | |
| LJS-13-15-OV | 0.4%, 0.4% | 15 | 1.6 | 1.6 | 1.3 | 0.9 | 13 | 13 | 4-3/4 x 1-25/32 x 6-5/16 | 112 | 221 |
| LJS-10-15-OV | 0.4%, 0.4% | 15 | 3.3 | 3.3 | 2.6 | 1.8 | 13 | 10 | 4-3/4 x 1-25/32 x 7-7/8 | 112 | 315 |
| LJS-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 | 246 |
| LJS-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 |
| LJS-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 |
| LJS-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 |
| LJS-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-12A-15-OV | 0.4%, 0.4% | 15 | 14.0 | 14.0 | 9.8 | 5.6 | 13 | 12A | 4-17/32 x 6-7/32 x 7-13/64 | 111 | 490 |



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# 5-year guaranteed switching selector guide

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

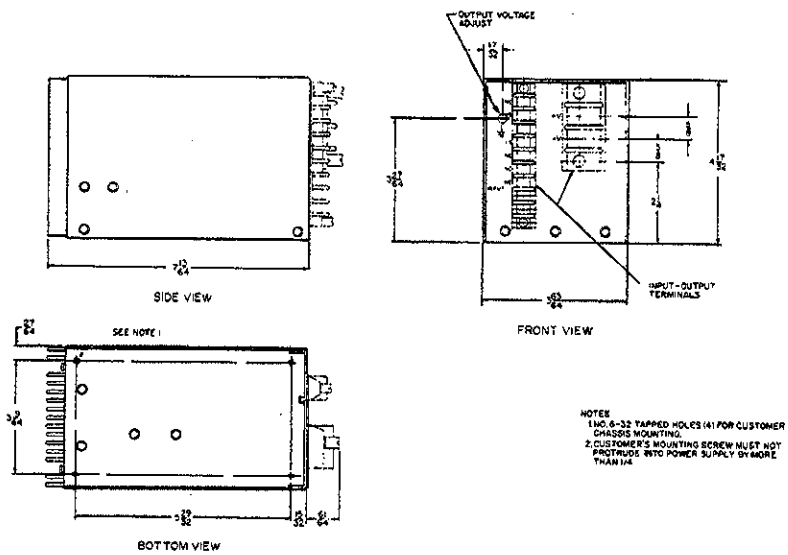
| MODEL | REGULATION (line, load) | RIPPLE (mV RMS) | MAX AMPS AT AMBIENT OF 40°C | 50°C | 60°C | 71°C | COMPLETE ELECT. SPEC. PG. | PKG. SIZE | DIMENSIONS (inches) | COMPLETE MECH. SPEC. PG | PRICE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **20 VOLTS ±5% ADJ.** | | | | | | | | | | | |
| LJS-12A-20-OV | 0.4%, 0.4% | 15 | 10.6 | 10.6 | 7.4 | 4.2 | 13 | 12A | 4-17/32 x 6-7/32 x 7-13/64 | 111 | 490 |
| **24 VOLTS ±5% 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 | 2.1 | 2.1 | 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 | 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 | 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 | 4.2 | 3.3 | 2.3 | 13 | 11 | 4-3/4 x 4-5/16 x 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 | 6.3 | 6.3 | 5.0 | 3.4 | 13 | 12 | 4-3/4 x 6-1/4 x 7-15/16 | 112 | 475 |
| LJS-12A-24-OV | 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% ADJ.** | | | | | | | | | | | |
| LJS-13-28-OV | 0.4%, 0.4% | 15 | 0.9 | 0.9 | 0.7 | 0.5 | 13 | 13 | 4-3/4 x 1-25/32 x 6-5/16 | 112 | 221 |
| LJS-10-28-OV | 0.4%, 0.4% | 15 | 2.8 | 1.8 | 1.4 | 1.0 | 13 | 15 | 4-3/4 x 1-25/32 x 7-7/8 | 112 | 315 |
| LJS-13A-28-OV | 0.4%, 0.4% | 15 | 2.5 | 2.5 | 1.8 | 1.0 | 13 | 13A | 4-17/32 x 1-11/16 x 7-13/64 | 111 | 246 |
| LJS-10A-28-OV | 0.4%, 0.4% | 15 | 3.1 | 3.1 | 2.1 | 1.2 | 13 | 10A | 4-17/32 x 2-3/64 x 7-13/64 | 111 | 283 |
| LJS-11-28-OV | 0.4%, 0.4% | 15 | 3.6 | 3.6 | 2.9 | 2.0 | 13 | 11 | 4-3/4 x 4-5/16 x 7-15/16 | 112 | 393 |
| LJS-11A-28-OV | 0.4%, 0.4% | 15 | 5.0 | 5.0 | 3.5 | 2.0 | 13 | 11A | 4-17/32 x 3-63/64 x 7-13/64 | 110 | 387 |
| LJS-12-28-OV | 0.4%, 0.4% | 15 | 5.4 | 5.4 | 4.3 | 3.0 | 13 | 12 | 4-3/4 x 6-1/4 x 7-15/16 | 112 | 475 |
| LJS-12A-28-OV | 0.4%, 0.4% | 15 | 7.8 | 7.8 | 5.4 | 3.1 | 13 | 12A | 4-17/32 x 6-7/32 x 7-13/64 | 111 | 490 |



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

**LJS-11A Series**

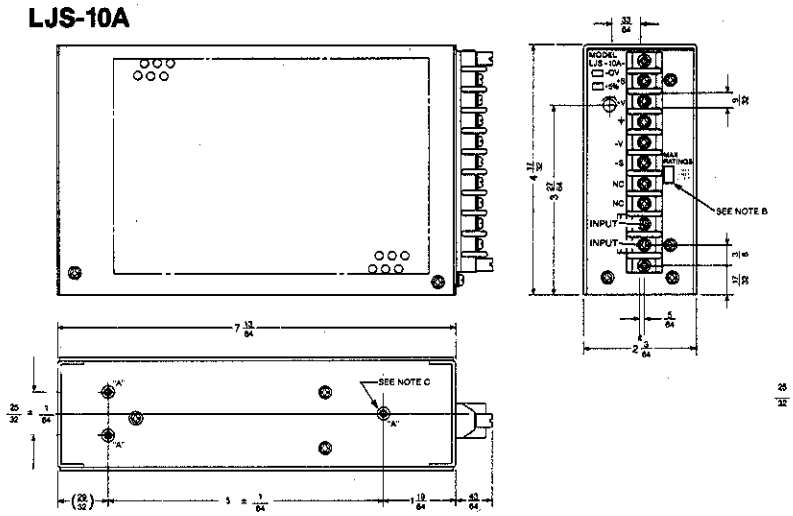





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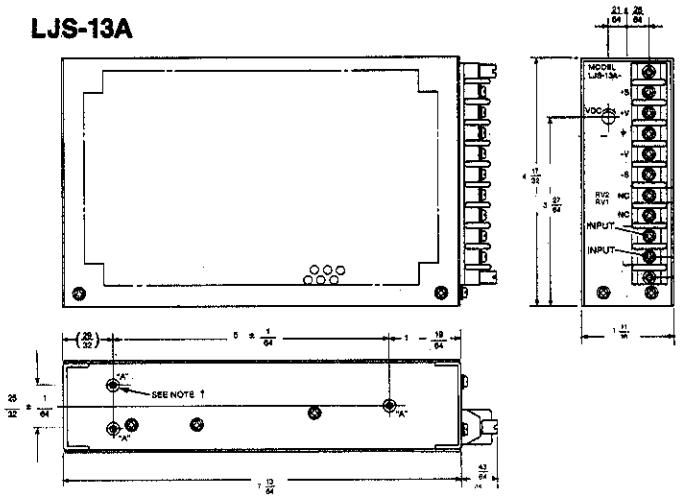
# PART IV—DIMENSIONAL DRAWINGS
# LJS AND LJA SERIES POWER SUPPLIES

## LJS-10A



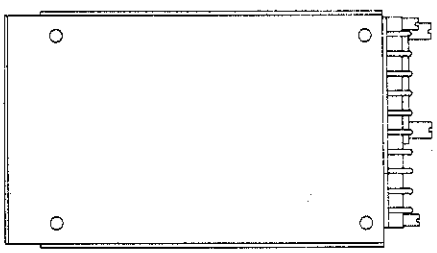

NOTE
1. No. 6-32 Tapped Holes (3) for customer chassis mounting.
2. Customer's mounting screw must not protrude into power supply by more than ¼".

## LJS-13A

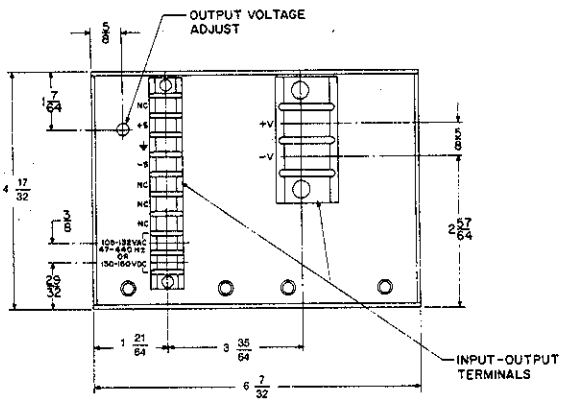



NOTE
1. No. 6-32 Tapped Holes (3) for customer chassis mounting.
2. Customer's mounting screw must not protrude into power supply by more than ¼".

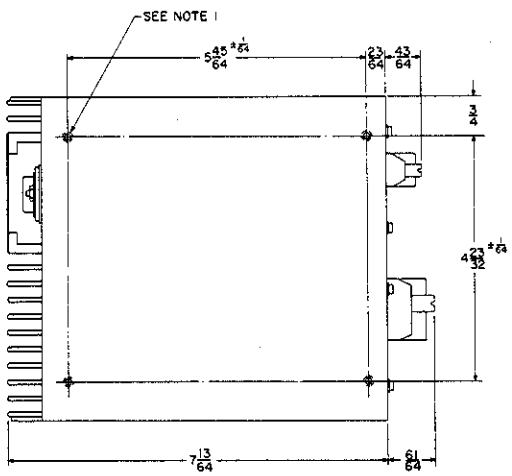
## LJS-12A Series



SIDE VIEW




FRONT VIEW




BOTTOM VIEW

NOTES
1. NO. 6-32 TAPPED HOLES (4) FOR CUSTOMER CHASSIS MOUNTING
2. CUSTOMER'S MOUNTING SCREW MUST NOT PROTRUDE INTO POWER SUPPLY BY MORE THAN 1/4.



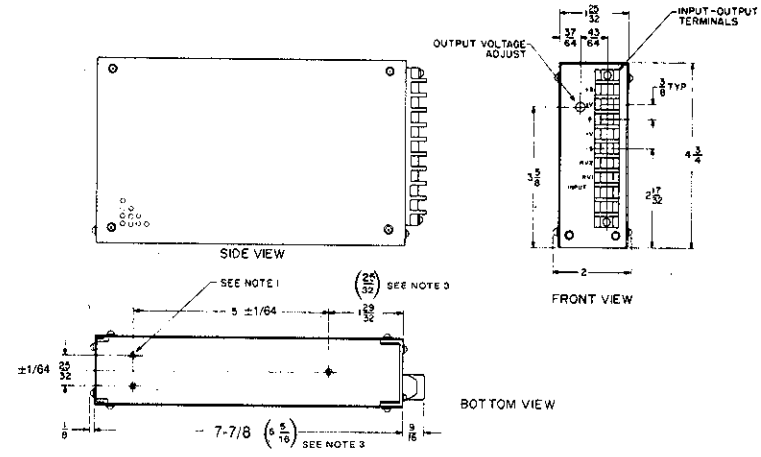
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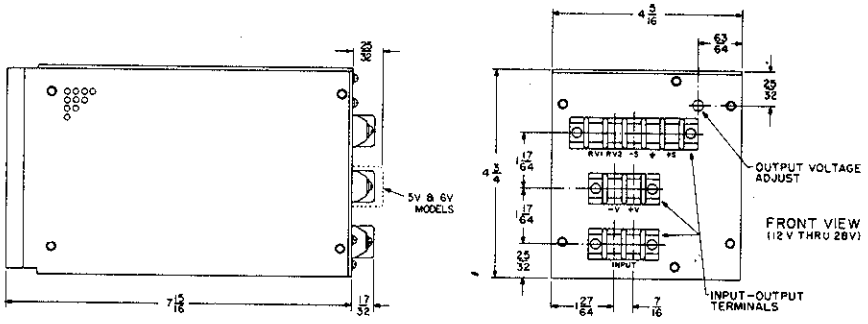
# PART IV—DIMENSIONAL DRAWINGS
# MODULAR SUPPLIES PACKAGE SIZES 10, 11, 12 AND 13

## LJS-10 Series
## LJS-13 Series

NOTES
1. NO. 6—32 TAPPED HOLES (3) FOR CUSTOMER CHASSIS MOUNTING.
2. CUSTOMER'S MOUNTING SCREW MUST NOT PROTRUDE INTO POWER SUPPLY BY MORE THAN 1/4".
3. ( ) = THESE DIMENSIONS APPLICABLE TO LJS-13 SERIES ONLY.

TERMINAL STRIP SCREWS
M3 X 6L (.118 DIA X .236 L)

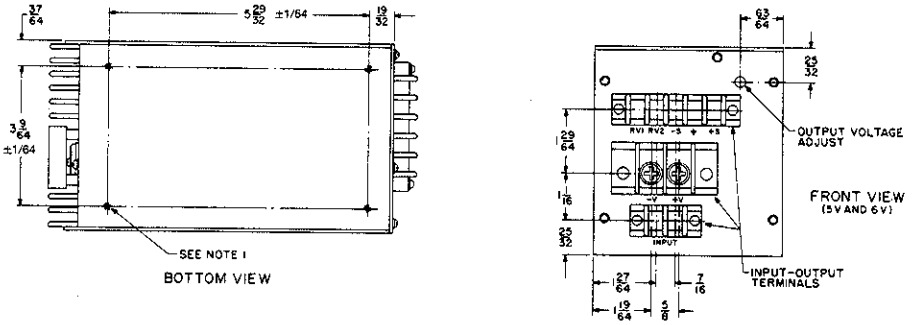



## LJS-11 Series

NOTES
1. NO. 6—32 TAPPED HOLES (4) FOR CUSTOMER CHASSIS MOUNTING.
2. CUSTOMER'S MOUNTING SCREW MUST NOT PROTRUDE INTO POWER SUPPLY BY MORE THAN 1/4".

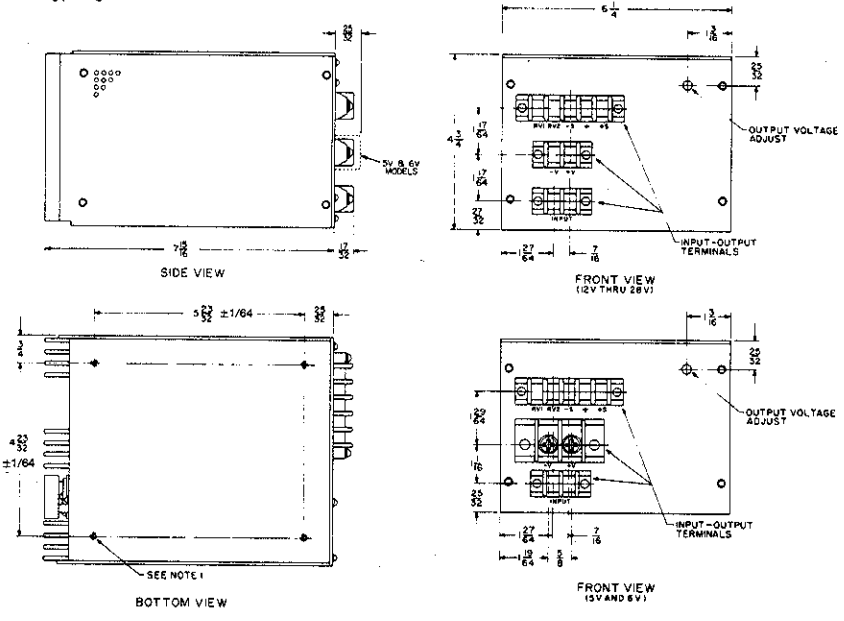
TERMINAL STRIP SCREWS
M3 X 6L (.118 DIA X .236 L)
MODELS—LJS-11-5 OV & -6 OV
M5 X 12 L (.197 DIA X .472 L)




## LJS-12 Series

NOTES
1. NO. 6—32 TAPPED HOLES (4) FOR CUSTOMER CHASSIS MOUNTING.
2. CUSTOMER'S MOUNTING SCREW MUST NOT PROTRUDE INTO POWER SUPPLY BY MORE THAN 1/4".

TERMINAL STRIP SCREWS
M3 X 6L (.118 DIA X .236 L)
MODELS LJS-12-5 OV & -6 OV
M5 X 12 L (.197 DIA x .472 L)

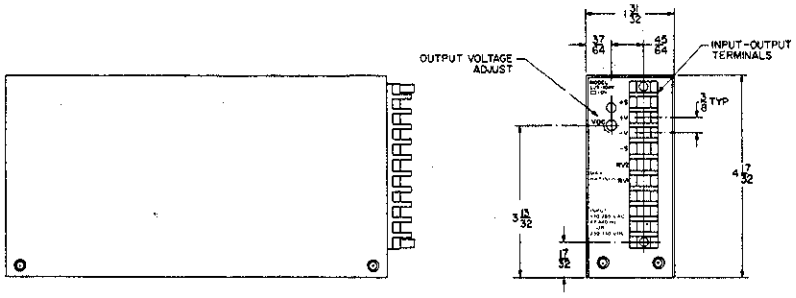





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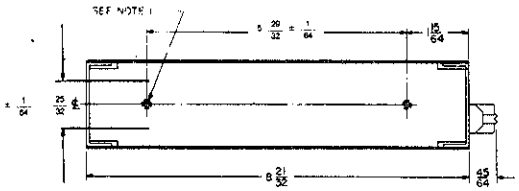
# PART IV—DIMENSIONAL DRAWINGS LJS-10AV, LJS-11AV, LJS-13AV SERIES POWER SUPPLIES

## LJS-10AV




SIDE VIEW

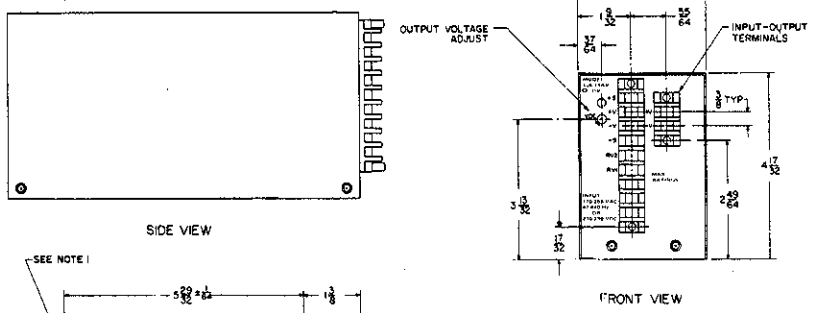
FRONT VIEW




BOTTOM VIEW

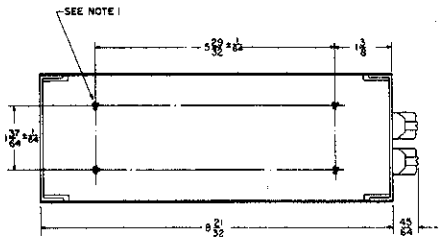
NOTES
1. 6-32 TAPPED HOLES (3) FOR CUSTOMER CHASSIS MOUNTING.
2. CUSTOMER'S MOUNTING SCREW MUST NOT PROTRUDE INTO POWER SUPPLY BY MORE THAN 1/4 INCH.

## LJS-11AV




SIDE VIEW

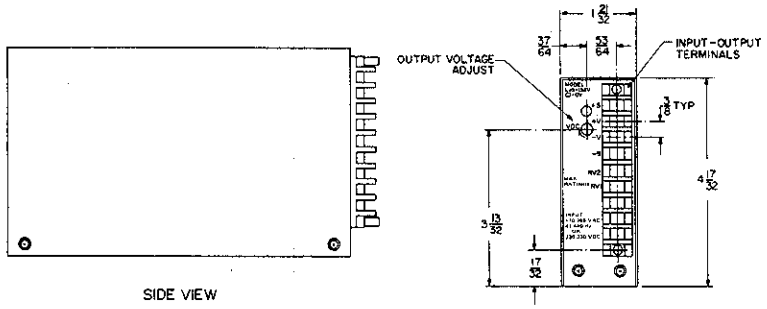
FRONT VIEW




BOTTOM VIEW

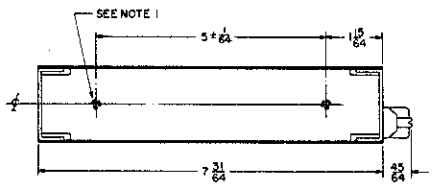
NOTES
1. 6-32 TAPPED HOLES (4) FOR CUSTOMER CHASSIS MOUNTING.
2. CUSTOMER'S MOUNTING SCREW MUST NOT PROTRUDE INTO POWER SUPPLY BY MORE THAN 1/4 INCH.

## LJS-13AV




SIDE VIEW

FRONT VIEW




BOTTOM VIEW

NOTES
1. 6-32 TAPPED HOLES (2) FOR CUSTOMER CHASSIS MOUNTING.
2. CUSTOMER'S MOUNTING SCREW MUST NOT PROTRUDE INTO POWER SUPPLY BY MORE THAN 1/4 INCH.



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