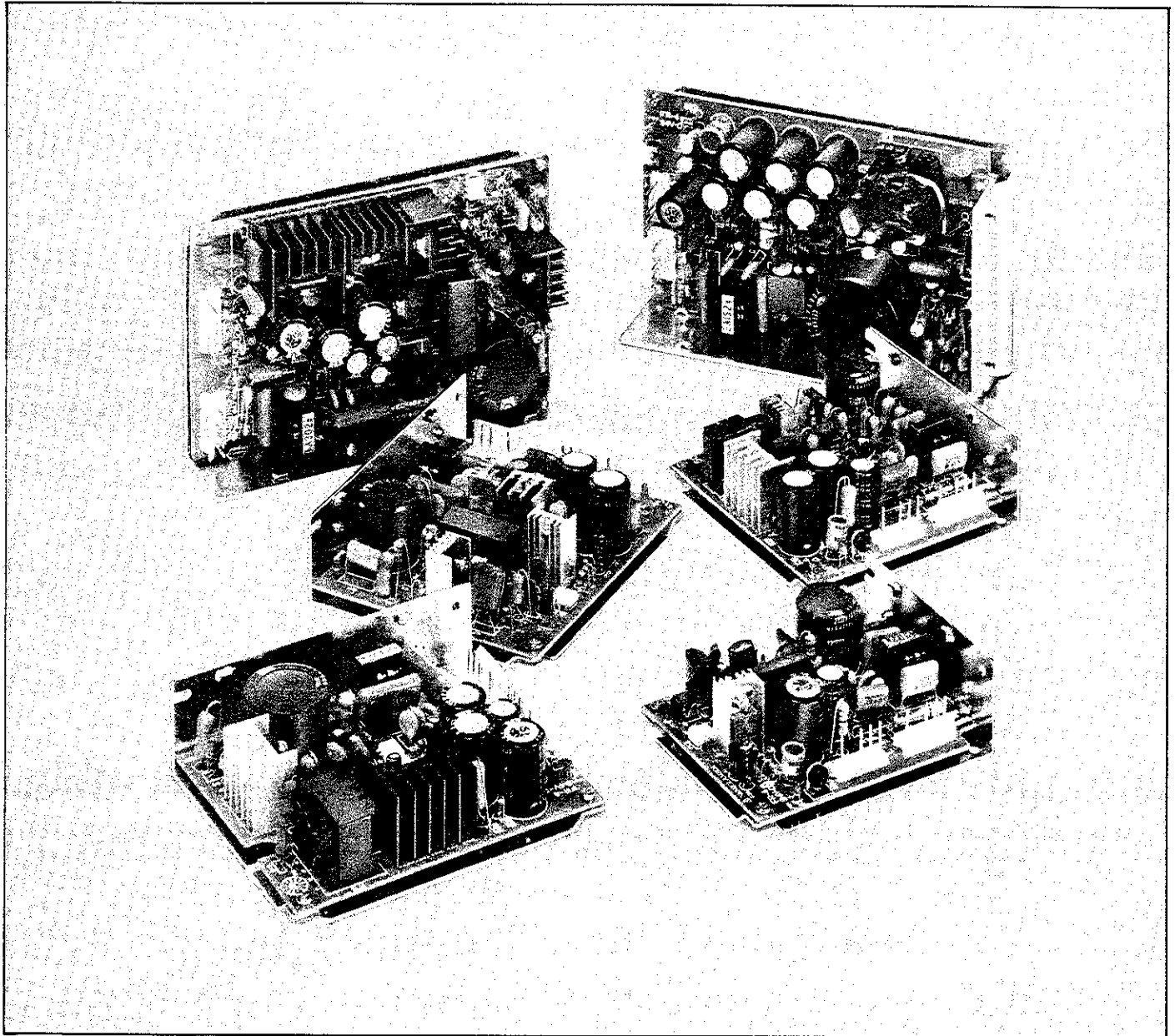


OEM SWITCHING

Lambda LV series



Features—LV series

30 models, up to 48V, up to 10A

Molex-type input-output connectors for ease in wiring and installation

One day delivery

Ideal for OEM applications

Indicator light for quick verification of output voltage

UL —Recognized

CSA—Under evaluation

Specifications—LV series

DC Output

Voltage range shown in tables.

REGULATED VOLTAGE

regulation, line 0.4% for input variations from 85-132VAC or 132-85 VAC.
regulation, load 0.8% for LVS models, 2% for LVT models (from no load to full load).
ripple and noise 15mV RMS for all models with either positive or negative terminal grounded. 150mV pk-pk for 5V models; 300mV pk-pk for 12V through 48V models.
temp. coeff. 0.02%/°C for single output models and 5V output of triple output models. 0.03%/°C for other two outputs of LVT models.

AC Input 85-132VAC, 47-440 Hz.

Efficiency 62% minimum.

DC Input 110-175 VDC.

Overshoot

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

Ambient Operating Temperature

0-60°C with suitable derating above 50°C (see table). 0-50° for LVT-41.

Storage Temperature

-30°C to +85°C.

Overload Protection

Automatic electronic current limiting circuit with automatic recovery, limits short circuit output current to a safe, preset value, thereby protecting the load as well as the power supply when direct shorts occur. Sustained short circuit operation for more than 30 seconds may cause damage to the power supply.

Hold Up Time

Output will remain within regulation limits for 16 msec typical after loss of AC power at full load with nominal output voltage and 85VAC input at 60Hz.

Overvoltage Protection

Standard on all single output LVS-44, LVS-45 models.

Input Fuse

A 2 amp slo-blo fuse in the AC input line protects the input wiring to the power supply. Overload of power supply does not cause fuse failure.

Cooling

Convection cooled, no fans or blowers needed.

DC Output Controls

Simple screwdriver adjustment over the entire voltage range of single output models. Triple output models are fixed.

Output Status Indicator

LED indicates presence of voltage on single output models and on +5V output of triple models.

Mounting

Two mounting surfaces, three mounting positions. Air circulation may be required when mounting in confined areas.

Input and Output Connections

Molex connectors. AC input—Molex Type 5289-4A. DC output—Molex Type 5287-4A. (Molex Type 5287-5A on triples). AC input terminals are marked "H" and "N" for hot side and neutral respectively.

Physical Data

Package Model	Weight		Size Inches
	Lbs. Net	Lbs. Ship	
LVT-40	0.84	1.0	1.38 x 3.82 x 4.47
LVT-41	1.0	1.13	1.46 x 3.82 x 6.05
LVS-42	0.44	0.52	1.38 x 3.82 x 3.13
LVS-43	0.55	0.64	1.38 x 3.82 x 3.88
LVS-44	0.70	0.82	1.38 x 3.82 x 4.59
LVS-45	0.86	1.0	1.38 x 3.82 x 6.26

Finish

Gray, Fed. Std. 595 No. 26081.

Guarantee

90-day guarantee includes labor as well as parts. Guarantee applies to operation at full published specifications at end of 90 days.

Recognized

CSA—Under evaluation

OEM Switching selector guide

LV series. Single output.

MODEL	REGULATION (line, load)	RIPPLE (mV RMS)	MAX CURRENT (AMPS AT)			COMPLETE	PKG. SIZE	DIMENSIONS (inches)	COMPLETE	QTY. 1	PRICE	QTY. 1000
			40 °C	50 °C	60 °C	ELEC. SPEC. PG			MECH. SPEC. PG		QTY. 100	
5V ± 5% ADJ.												
LVS-42-5B	0.4%, 0.8%	15	2.0	2.0	1.5	56	42	1.38 x 3.82 x 3.13	131	\$41.00	\$26.00	\$19.00
LVS-43-5B	0.4%, 0.8%	15	3.0	3.0	2.25	56	43	1.38 x 3.82 x 3.88	131	47.00	31.50	22.25
LVS-44-5B	0.4%, 0.8%	15	5.0	5.0	3.75	56	44	1.38 x 3.82 x 4.59	131	72.00	45.00	26.50
LVS-45-5B	0.4%, 0.8%	15	10.0	10.0	7.5	56	45	1.38 x 3.82 x 6.26	131	98.00	56.00	38.00
12V ± 5% ADJ.												
LVS-42-12B	0.4%, 0.8%	15	0.9	0.9	0.67	56	42	1.38 x 3.82 x 3.13	131	41.00	26.00	19.00
LVS-43-12B	0.4%, 0.8%	15	1.3	1.3	0.97	56	43	1.38 x 3.82 x 3.88	131	47.00	31.50	22.25
LVS-44-12B	0.4%, 0.8%	15	2.1	2.1	1.57	56	44	1.38 x 3.82 x 4.59	131	72.00	45.00	26.50
LVS-45-12B	0.4%, 0.8%	15	4.2	4.2	3.15	56	45	1.38 x 3.82 x 6.26	131	98.00	56.00	38.00
15V ± 5% ADJ.												
LVS-42-15B	0.4%, 0.8%	15	0.7	0.7	0.52	56	42	1.38 x 3.82 x 3.13	131	41.00	26.00	19.00
LVS-43-15B	0.4%, 0.8%	15	1.0	1.0	0.75	56	43	1.38 x 3.82 x 3.88	131	47.00	31.50	22.25
LVS-44-15B	0.4%, 0.8%	15	1.7	1.7	1.27	56	44	1.38 x 3.82 x 4.59	131	72.00	45.00	26.50
LVS-45-15B	0.4%, 0.8%	15	3.4	3.4	2.55	56	45	1.38 x 3.82 x 6.26	131	98.00	56.00	38.00
24V ± 5% ADJ.												
LVS-42-24B	0.4%, 0.8%	15	0.5	0.5	0.37	56	42	1.38 x 3.82 x 3.13	131	41.00	26.00	19.00
LVS-43-24B	0.4%, 0.8%	15	0.7	0.7	0.52	56	43	1.38 x 3.82 x 3.88	131	47.00	31.50	22.25
LVS-44-24B	0.4%, 0.8%	15	1.1	1.1	0.82	56	44	1.38 x 3.82 x 4.59	131	72.00	45.00	26.50
LVS-45-24B	0.4%, 0.8%	15	2.1	2.1	1.57	56	45	1.38 x 3.82 x 6.26	131	98.00	56.00	38.00
28V ± 5% ADJ.												
LVS-42-28B	0.4%, 0.8%	15	0.4	0.4	0.3	56	42	1.38 x 3.82 x 3.13	131	41.00	26.00	19.00
LVS-43-28B	0.4%, 0.8%	15	0.6	0.6	0.45	56	43	1.38 x 3.82 x 3.88	131	47.00	31.50	22.25
LVS-44-28B	0.4%, 0.8%	15	0.9	0.9	0.67	56	44	1.38 x 3.82 x 4.59	131	72.00	45.00	26.50
LVS-45-28B	0.4%, 0.8%	15	1.8	1.8	1.35	56	45	1.38 x 3.82 x 6.26	131	98.00	56.00	38.00
48V ± 5% ADJ.												
LVS-42-48B	0.4%, 0.8%	15	0.2	0.2	0.15	56	42	1.38 x 3.82 x 3.13	131	41.00	26.00	19.00
LVS-43-48B	0.4%, 0.8%	15	0.3	0.3	0.22	56	43	1.38 x 3.82 x 3.88	131	47.00	31.50	22.25
LVS-44-48B	0.4%, 0.8%	15	0.5	0.5	0.37	56	44	1.38 x 3.82 x 4.59	131	72.00	45.00	26.50
LVS-45-48B	0.4%, 0.8%	15	1.0	1.0	0.75	56	45	1.38 x 3.82 x 6.26	131	98.00	56.00	38.00

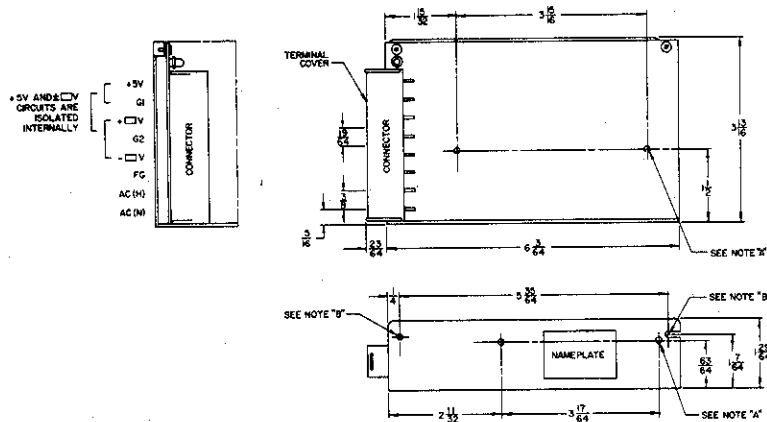
Triple Output

MODEL	Volt Vo	REGULATION (line, load)	RIPPLE (mV RMS)	MAX CURRENT (AMPS AT)			COMPLETE ELEC. SPEC. PG	PKG. SIZE	DIMENSIONS (Inches)	COMPLETE MECH. SPEC. PG	QTY. 1	PRICE QTY. 100	QTY. 1000
				40 °C	50 °C	60 °C							
5V ± 12V FIXED													
LVT-40-133B	+ 5	0.4%, 2%	15	2.0	2.0	1.0	56	40	1.38 x 3.82 x 4.47	131	\$60.00	\$37.50	\$24.00
	+ 12	0.4%, 2%	15	0.3	0.3	0.15							
	- 12	0.4%, 2%	15	0.2	0.2	0.1							
LVT-41-133B	+ 5	0.4%, 2%	15	3.0	1.5	—	56	41	1.46 x 3.82 x 6.05	131	88.00	56.00	35.00
	+ 12	0.4%, 2%	15	1.2	0.6	—							
	- 12	0.4%, 2%	15	0.3	0.15	—							
5V ± 15V FIXED													
LVT-40-144B	+ 5	0.4%, 2%	15	2.0	2.0	1.0	56	40	1.38 x 3.82 x 4.47	131	60.00	37.50	24.00
	+ 15	0.4%, 2%	15	0.3	0.3	0.15							
	- 15	0.4%, 2%	15	0.2	0.2	0.1							
LVT-41-144B	+ 5	0.4%, 2%	15	3.0	1.5	—	56	41	1.46 x 3.82 x 6.05	131	88.00	56.00	35.00
	+ 15	0.4%, 2%	15	1.2	0.6	—							
	- 15	0.4%, 2%	15	0.3	0.15	—							
5V ± 12V -5V FIXED													
LVT-40-131B	+ 5	0.4%, 2%	15	2.0	2.0	1.0	56	40	1.38 x 3.82 x 4.47	131	60.00	37.50	24.00
	+ 12	0.4%, 2%	15	0.3	0.3	0.15							
	- 5	0.4%, 2%	15	0.2	0.2	0.1							
LVT-41-131B	+ 5	0.4%, 2%	15	3.0	1.5	—	56	41	1.46 x 3.82 x 6.05	131	88.00	56.00	35.00
	+ 12	0.4%, 2%	15	1.2	0.6	—							
	- 5	0.4%, 2%	15	0.3	0.15	—							

PART IV—DIMENSIONAL DRAWINGS

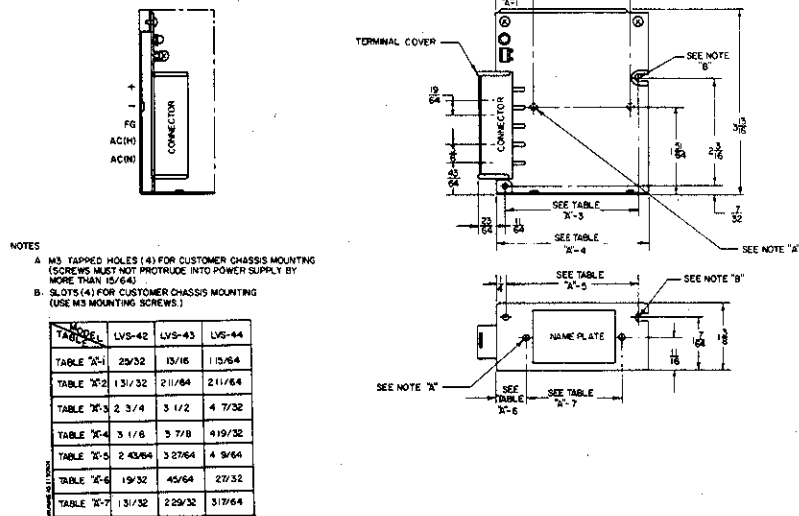
LV SERIES POWER SUPPLIES

LVT-41



NOTES:
 A. M3 TAPPED HOLES (4) FOR CUSTOMER CHASSIS MOUNTING. (SCREWS MUST NOT PROTRUDE INTO POWER SUPPLY BY MORE THAN 1/8").
 B. SLOTS (2) FOR CUSTOMER CHASSIS MOUNTING. (USE M3 MOUNTING SCREWS).

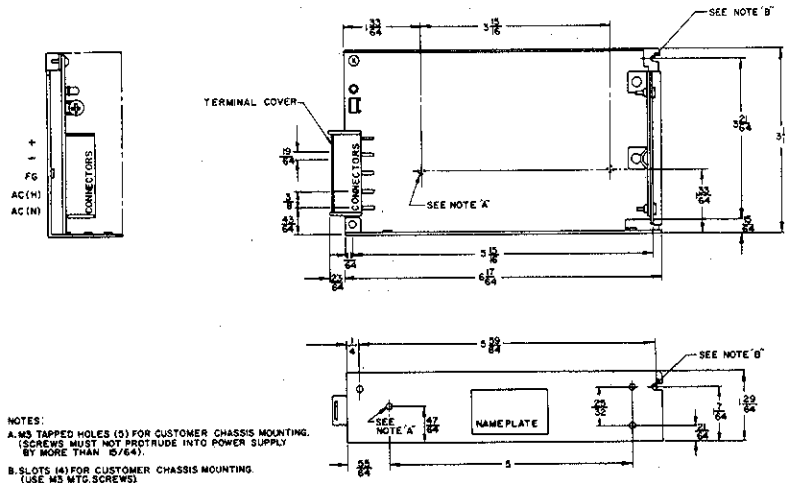
LVS-42 LVS-43 LVS-44



NOTES:
 A. M3 TAPPED HOLES (4) FOR CUSTOMER CHASSIS MOUNTING. (SCREWS MUST NOT PROTRUDE INTO POWER SUPPLY BY MORE THAN 1/8").
 B. SLOTS (4) FOR CUSTOMER CHASSIS MOUNTING. (USE M3 MOUNTING SCREWS).

TABLE NO.	LVS-42	LVS-43	LVS-44
TABLE 'A'-1	25/32	13/16	1 1/8
TABLE 'A'-2	1 1/2	2 1/8	2 1/4
TABLE 'A'-3	2 3/4	3 1/2	4 7/8
TABLE 'A'-4	3 1/8	3 7/8	4 19/32
TABLE 'A'-5	2 43/64	3 27/64	4 9/64
TABLE 'A'-6	1 9/32	45/64	27/32
TABLE 'A'-7	1 1/2	2 29/32	3 7/8

LVS-45



NOTES:
 A. M3 TAPPED HOLES (5) FOR CUSTOMER CHASSIS MOUNTING. (SCREWS MUST NOT PROTRUDE INTO POWER SUPPLY BY MORE THAN 1/8").
 B. SLOTS (4) FOR CUSTOMER CHASSIS MOUNTING. (USE M3 MTC SCREWS).