

INSTRUCTION MANUAL

REGULATED POWER SUPPLIES

LVT-40 SERIES

DC OUTPUT — Voltage regulated for line and load. For voltage and current ratings see table I below.

TABLE I

MODEL	MAIN OUTPUT			2ND OUTPUT			3RD OUTPUT		
	VTGE RANGE (ADJ)	AMPS @ AMB. TEMP.		VTGE (NON-ADJ)	AMPS @ AMB. TEMP.		VTGE (NON-ADJ)	AMPS @ AMB. TEMP.	
		50° C	60° C		50° C	60° C		50° C	60° C
LVT-40-144B	+5V ±1%	2.0	1.0	+15 ±5%	0.3	0.15	-15 ±5%	0.2	0.1
LVT-40-133B	+5V ±1%	2.0	1.0	+12 ±5%	0.3	0.15	-12 ±5%	0.2	0.1
LVT-40-131B	+5V ±1%	2.0	1.0	+12 ±5%	0.3	0.15	-5 ±5%	0.2	0.1

Current range must be chosen to suit the appropriate ambient temperature. Current ratings apply for entire voltage range.

REGULATED VOLTAGE OUTPUT

Regulation (line) 0.4% for input variations from 85-132 VAC or 132-85 volts AC, all outputs.
 Regulation (load). 2% for load variations from no-load to full-load or full-load to no-load.
 Ripple and Noise 150 mV peak-to-peak for 5V outputs; 300 mV peak-to-peak for 12V and 15V outputs; 15 mV rms for all outputs.
 Temperature Coefficient 0.02%/°C for main output; 0.03%/°C for 2nd and 3rd outputs.

OVERSHOOT — No overshoot under conditions of power turn-on, turn-off or power failure.

AC INPUT — 85-132 volts AC at 47-440 Hz. Input power 25 watts maximum.* Ratings apply for 47-440 Hz input.

*With output loaded to full current rating and input voltage 132 volts AC at 60 Hz.

DC INPUT — 110-175 volts DC.

EFFICIENCY — 62% minimum.

OVERLOAD PROTECTION — Automatic electronic current limiting circuit with automatic recovery limits short circuit output current to a safe preset value, protecting load and power supply when direct shorts occur. Sustained short circuit operation for more than 30 seconds may cause power supply damage. Internal failure protection provided by fuse.

HOLD-UP TIME — Output will remain within regulation limits for at least 16.0 msec after loss of AC power at full-load with nominal output voltage and 85 VAC input at 60 Hz.

INPUT FUSE — Fuse F1, 2A Slo-Blo, in AC input line protects the input wiring to the power supply. Overload of power supply does not cause fuse failure.

INPUT AND OUTPUT CONNECTIONS — Molex type 5289-4A connector contains all terminals for AC input and ground, Molex type 5287-5A connector contains all terminals for DC output. AC input terminals are marked H and N for hot side and neutral respectively.

COOLING — Convection cooled; no external blowers required.

OPERATING AMBIENT TEMPERATURE RANGE AND DUTY CYCLE — Continuous duty from 0° to +60°C with corresponding load current ratings for all modes of operation.

STORAGE TEMPERATURE — -30°C to +85°C.

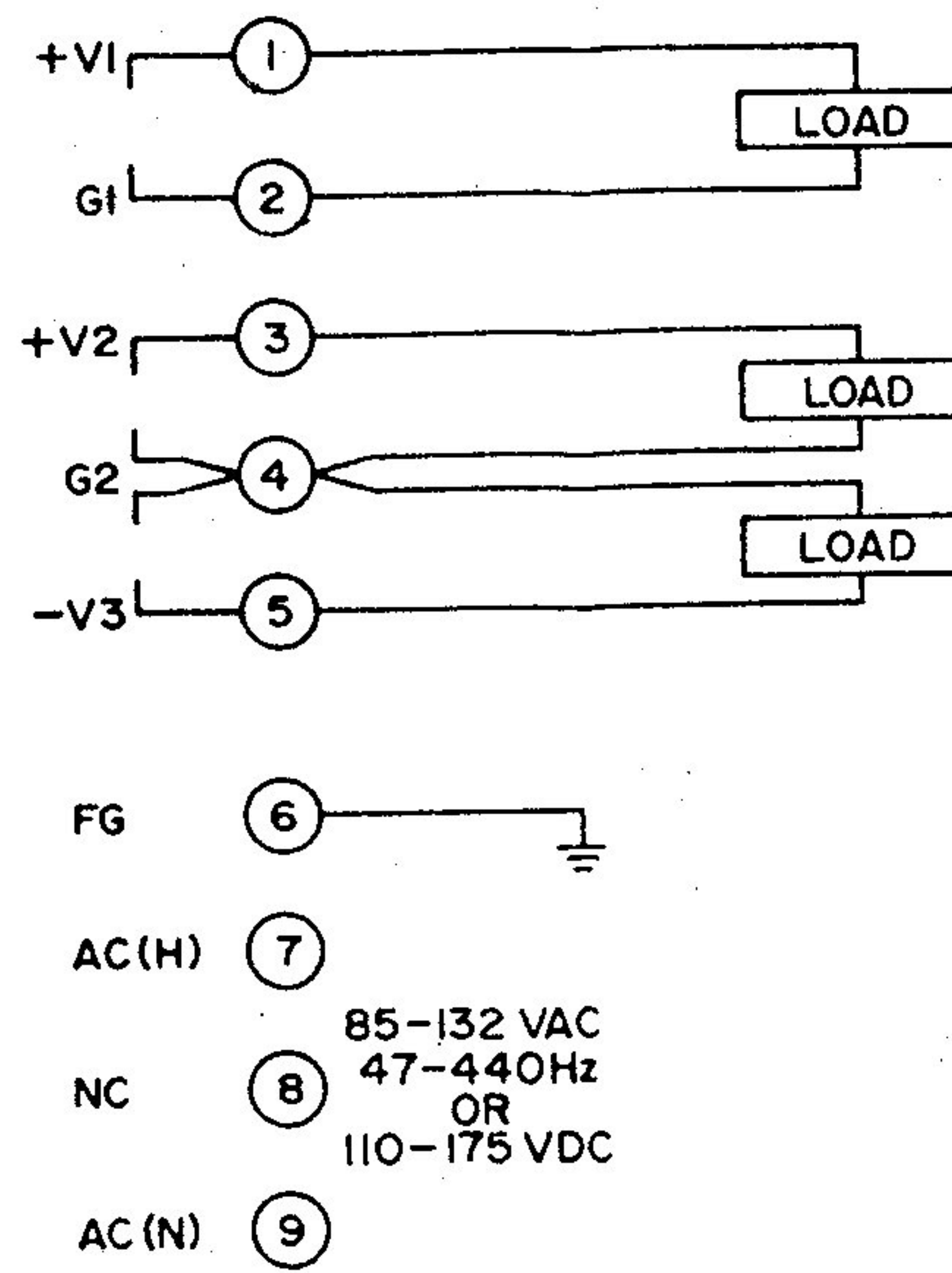
WARRANTY — 90 day warranty from date of shipment materials and labor.

OUTPUT STATUS INDICATOR — L.E.D. light indicates presence of voltage on the main output terminals.

PHYSICAL DATA

Size 3-13/16 x 1-3/8" x 4-31/64"
 Weight 0.84 lbs. net; 1.0 lb. shipping
 Finish NICKEL PLATE, FED. STD. 595 No. 26081

MOUNTING — Two surfaces with threaded mounting holes can be utilized for mounting this unit. Air circulation is required when unit is mounted in confined area.



DC Output Connection Diagram