

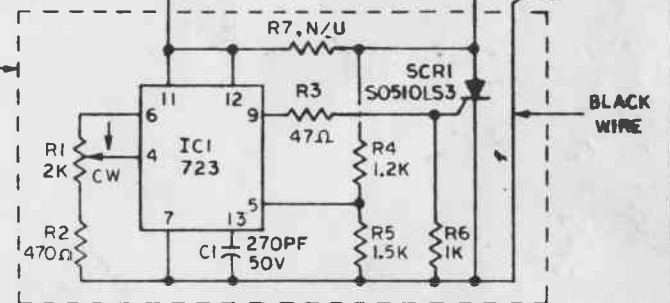
**NOTES: UNLESS OTHERWISE SPECIFIED**

- 1. ALL RESISTORS ARE 1/2W, ± 5% - CARBON FILM
- 2. R3 AND Q1 NOT USED. R3 IS JUMPERED ON PC BOARD ETCH.
- 3. R7 USED ON -3 MODEL ONLY.

**OPERATING INSTRUCTIONS:**

1. TO SET OPTIONAL OVP: TURN OVP ADJUSTMENT POT FULL COUNTER-CLOCKWISE. SET OUTPUT VOLTAGE TO DESIRED OVERVOLTAGE LIMIT (20% ABOVE OUTPUT VOLTAGE RECOMMENDED). TURN OVP ADJUSTMENT POT SLOWLY CLOCKWISE UNTIL SCR FIRES (VOLTAGE DROPS TO APPROXIMATELY 1 VOLT). TURN POWER OFF. TURN VOLTAGE ADJUSTMENT POT FULL COUNTER-CLOCKWISE. RE-APPLY POWER AND SET SUPPLY VOLTAGE TO NORMAL OUTPUT.
2. POWER SUPPLY IS DESIGNED FOR CONTINUOUS OPERATION UNDER FULL LOAD AND HIGH LINE CONDITIONS AT 40° C AMBIENT IN FREE AIR ENVIRONMENT. IF AIR FLOW IS RESTRICTED, THE CASE TEMP. OF 2N6055 TRANSISTOR SHOULD BE MONITORED UNDER PARTICULAR WORST CASE. MAXIMUM ALLOWABLE TEMP IS 150° C.
3. RECOMMENDED EXTERNAL FUSING: 1 AMP FOR 115V OPERATION.
4. SELECT PROPER PRIMARY TRANSFORMER TAPS FOR DESIRED OUTPUT VOLTAGE RANGE (SEE TABULATION BLOCK).

**CAUTION: READ INSTRUCTIONS BEFORE OPERATING POWER SUPPLY.**



TABULATION													
MODEL	INPUT TAP A	INPUT TAP B	IC1	C1	C2A,B	C6	R1	R2	R6	RB	R9	R10	R15
XP30-3	2-3V, 6.0A	4V, 6.0A	LM300										220Ω 100Ω
XP30-5	5V, 6.0A	6V, 5.0A	LM305H	100UF 16V	10K UF 15V	1000UF 10V	1K	270Ω	470Ω	330Ω	220Ω	2.2K	5.6K 1.8K
XP30-9	7V, 4.4A 8V, 4.2A	9V, 4.0A 10V, 3.8A	LM305										15K 2.2K

**PROPRIETARY INFORMATION**  
 NO INFORMATION GIVEN HEREIN MAY BE DISSEMINATED TO ANY PERSON OR COMPANY WITHOUT THE EXPRESS PERMISSION OF XENTEK INC.

**XENTEK INC.**  
 SAN MARCOS, CALIF.

SCALE	APPROVED BY:	DRAWN BY: <i>MAE</i>
DATE: 1-28-75		REVISED
<b>POWER SUPPLY SCHEMATIC</b>		<b>REV. A</b>
MODEL XP30 (2-10V)		DRAWING NUMBER C3006-501