



SU FUTURO EN TECNOLOGIA

Circuitos Integrados * Semiconductores * Repuestos Industriales * Servicio Técnico * Instrumentación
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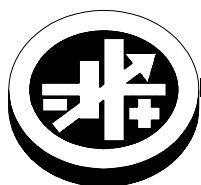
Carlos Erazo
Gerente General

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INSTRUCTION MANUAL



KEPCO An ISO 9001 Company.

FAW

KEPCO SINGLE OUTPUT 25 WATT HIGH FREQUENCY SWITCHING POWER SUPPLIES

I — INTRODUCTION

The Kepco FAW 25 Watt Series low profile high frequency switching power supplies employ flyback conversion and operate with a 70% efficiency with either a-c or d-c input. A thermistor soft-start circuit limits start-up surge. Surface mount technology permits efficient component layout for minimum mounting space. Four models may be selected for outputs of 5, 12, 15 or 24V. "POWER OK" logic and a green "POWER OK" light are provided. A steel cover (Model CA 25) is available as an option. Output voltage may be adjusted with a trimmer accessible near the input-output terminal strip. When the input is cut off, the output is maintained for 15 milliseconds minimum. EMI filtering meets FCC Class B rating and VDE 0871 Class B rating. This page contains specifications for each model of the FAW 25 Watt Series. Environmental specifications for each model are the same.

II — SPECIFICATIONS

The following specifications apply to FAW 25 Watt Series models. Other models are also available; consult your Kepco representative for their specifications.

TABLE 1. OUTPUT RATINGS AND SPECIFICATIONS, FAW 25W SERIES

MODEL	FAW 5-5K	FAW 12-2.1K	FAW 15-1.7K	FAW 24-1.1K	
OUTPUT VOLTS, d-c (NOMINAL)	5V	12V	15V	24V	
ADJUSTMENT RANGE	4.2-5.5V	10.8-13.2V	13.5-16.5V	21.6-26.4V	
OUTPUT CURRENT (NOMINAL)	5.0A	2.1A	1.7A	1.1A	
OUTPUT POWER (MAXIMUM)	25.0W	25.2W	25.5W	26.4W	
RIPPLE AND NOISE (mV p-p) 0-50°C 10-100% LOAD	source (typ)	9	17	17	
	source (max)	18	35	35	
	switching (typ)	31	32	42	57
	switching (max)	62	65	85	115
	spike noise (d-c—50MHz)	120	190	220	310
OVERVOLTAGE SETTING 25°C, NOM. INPUT	6.0-6.9V	13.7-15.7V	17.0-19.0V	27.0-30.5V	
OVERCURRENT SETTING 25°C, NOM. INPUT	5.5-7.5A	2.3-3.3A	1.9-2.8A	1.2-1.8A	

INPUT:

Voltage: 120V a-c/240V a-c nominal; Range 85-264V a-c; 110-370V d-c.

Frequency: Nominal 50-60 Hz; Range 47-440Hz (at 440Hz leakage current exceeds UL/VDE safety spec. limit).

Current (nominal output at rated load): @120V a-c rms: 0.55A typ., 0.7A max.; @240V a-c rms: 0.35A typ., 0.45A max.

Initial Turn-on Surge: (one-half of first input cycle): @120V a-c rms, 43A max., @240V a-c rms, 85A max.

STABILIZATION:

Source Effect: Range 85-132V a-c or 170-264V a-c, 1.0% typ.; 2.0% max.

Load Effect: Range 10%-100% load, 1.0% typ.; 2.0% max.

Temperature Effect: Range 0° to 50°C, 1.0% typ.; 2.0% max.

Combined Effect: 2.6% typ.; 4.0% max. (includes source, load, and temperature effects).

Drift: 0.1% typ.; 0.5% max. (1/2 hr-8 hr at 25°C).

RECOVERY CHARACTERISTICS: A step load change from 50% to 100% produces less than $\pm 4\%$ output excursion. Recovery occurs to within $\pm 1\%$ of the original setting in $< 2\text{ms}$ (t_r or t_f equal to or greater than $50\mu\text{sec}$ at load change).

START-UP TIME: 500 ms. maximum.

HOLDUP TIME: 15 ms. min (100V a-c), 20 ms. typ. (120V a-c).

DIELECTRIC STRENGTH:

Between input and output: 2KV a-c for one minute.

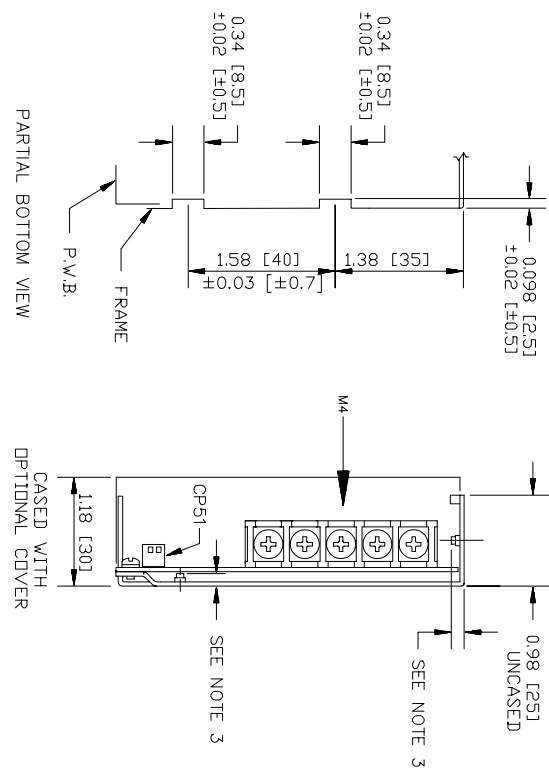
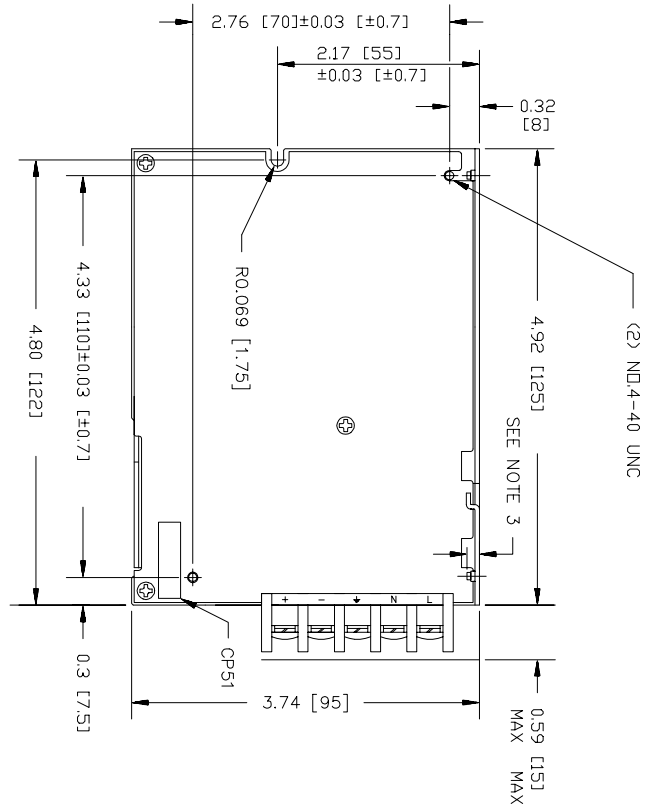
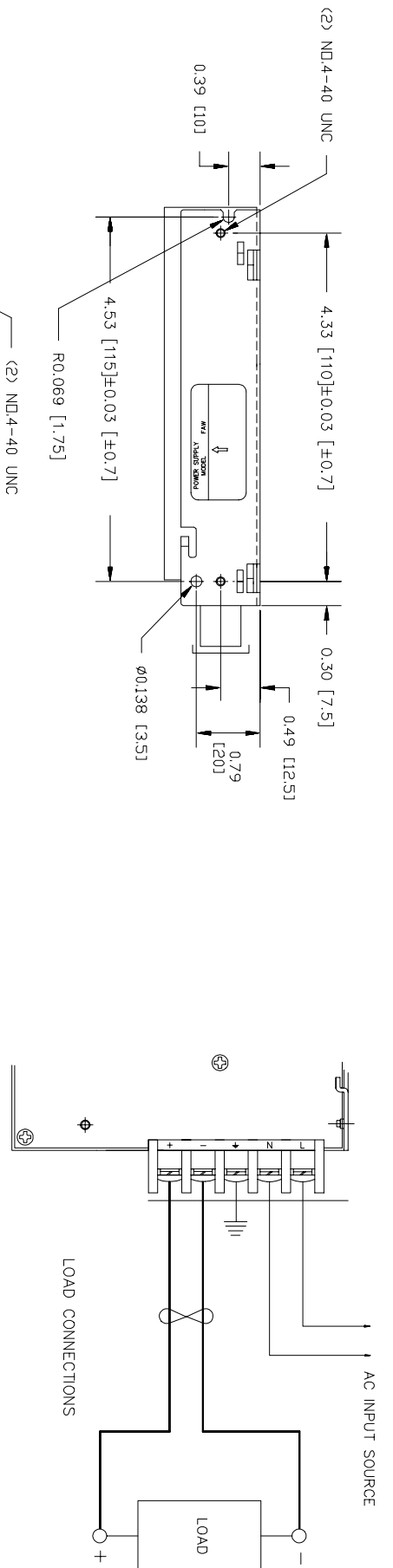
Between input and output with Y-capacitor removed: 3.75KV a-c for one minute.

Between input and case (ground): 2KV a-c for one minute.

INSULATION RESISTANCE: Between input and ground, output and ground, input and output; 100 Megohms min. (500V d-c).

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- NOTES:
1. DIMENSIONS IN PARENTHESSES ARE IN MILLIMETERS, OTHERS IN INCHES.
 2. TOLERANCES: ±.04 (±1) EXCEPT AS NOTED.
 3. MAXIMUM MOUNTING SCREW PENETRATION: 0.2 (5).

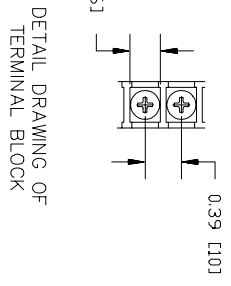


FIGURE 3. MECHANICAL OUTLINE DRAWING