

INSTRUCTION MANUAL



KEPCO

ENCLOSURES AND HARDWARE SYSTEMS

RA 39
Rack System

GENERAL DESCRIPTION (Refer to FIG. 1)

The Kepeco Model RA-39 Rack Adapter is designed for the installation of Kepeco Switching Power Supplies into a standard 19-inch Rack. In order to accommodate the various sizes of Kepeco Switching Power Supplies a pair of (optional) mounting brackets (Kepeco Model RAB 39-40) is first attached to the supplies, which are then installed to the front and rear rails of the Model RA-39 Rack Adapter.

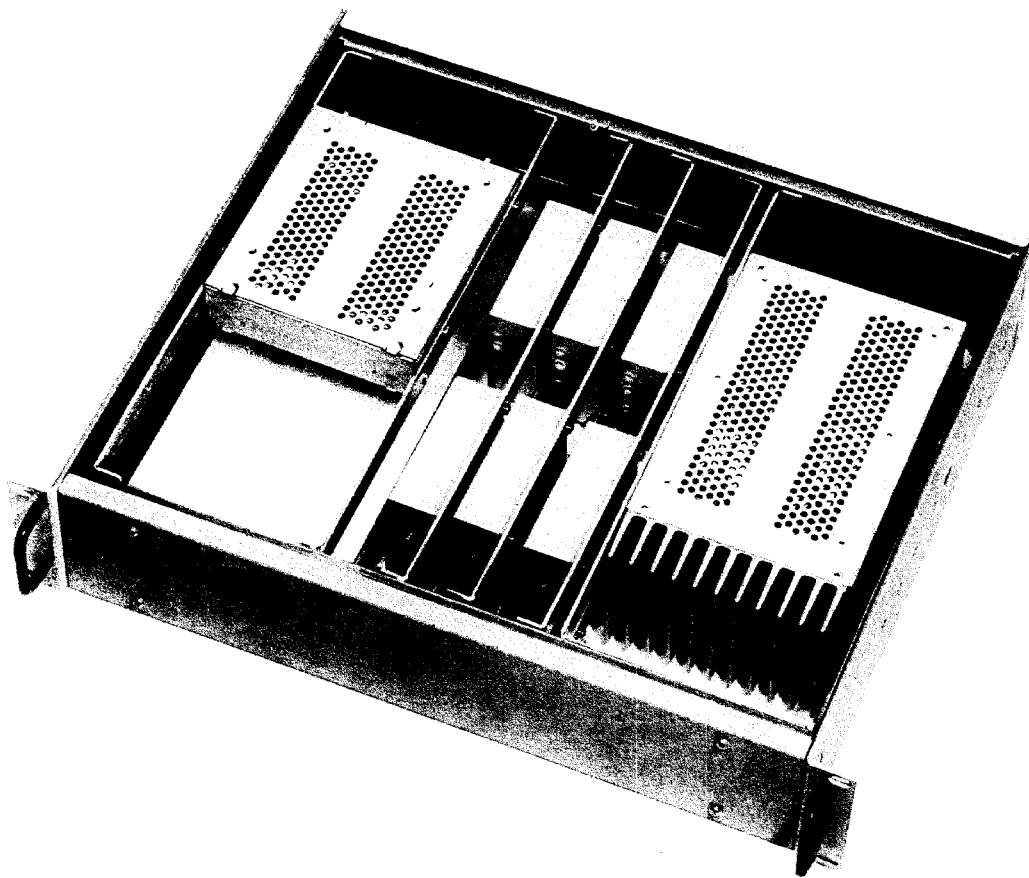


FIG. 1 KEPCO MODEL RA-39 RACK ADAPTER SHOWING ONE SIZE "S",
ONE SIZE "B" AND SIX "H" UNITS MOUNTED.

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INSTALLATION OF RA-39 RACK ADAPTER INTO AN EQUIPMENT RACK.

The Kepco Model RA-39 Rack Adapter may be bolted permanently into a standard 19-inch rack, it can be placed onto a rack-shelf, or it may be installed with slides. The front flanges are drilled for standard (2 1/4 inch) mounting hole distances. The sides of the Model RA-39 Rack Adapter are drilled for "JONATHAN" slides (Refer to Fig. 6).

CAUTION

Since all Kepco Switching Power Supplies are convection cooled devices, sufficient airflow around the installed power supplies and around the rack adapter must be provided. Ambient temperature checks on the completed installation should be compared with the specified ambient temperature ratings of the power supplies, generally 50°C without derating, up to 70°C with output current derating, see power supply instruction manual. Heatsink or case temperatures on the installed supplies must not exceed 80°C. The units in the RA-39 Rack Adapter (except "H" size power supplies) are mounted in the horizontal (flat) position. Units equipped with finned heatsinks should be equipped with the (optional) short-direction fin rather than the lengthwise fins which are normally supplied. Model designation for short-direction fins are: FIN-SS for size "SS" and "SA" models, FIN-AS for size "AA" and "AB" models, FIN-BS for "B" size models.

INSTALLATION OF KEPCO SWITCHING POWER SUPPLIES INTO THE RA-39 RACK ADAPTER.

A) INSTALLATION OF (OPTIONAL) MODEL RAB 39-40 BRACKETS.

The Model RAB 39-40 consists of two brackets to be attached to each power supply to be installed, plus the necessary hardware to mount the brackets to the front and rear rails of the adapter. The following illustrations show one recommended mounting position for each basic power supply configuration.

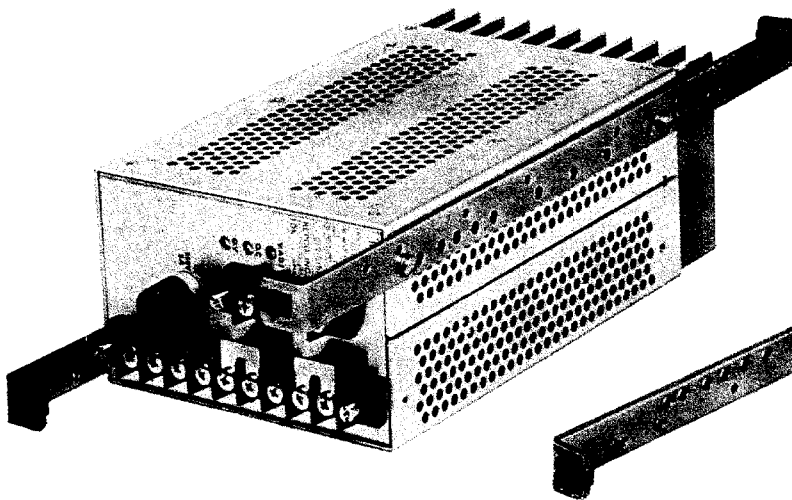


FIG. 2 MODEL RAB 39-40 BRACKETS MOUNTED ONTO "B"-SIZE UNITS. "B" SIZE MODEL SHOWN WITH FIN-BS.

FIG. 3 MODEL RAB 39-40 BRACKETS, MOUNTED ONTO "S", "SA", "W", "A", "AA", or "AB" SIZE UNITS. "S" SIZE MODEL SHOWN.

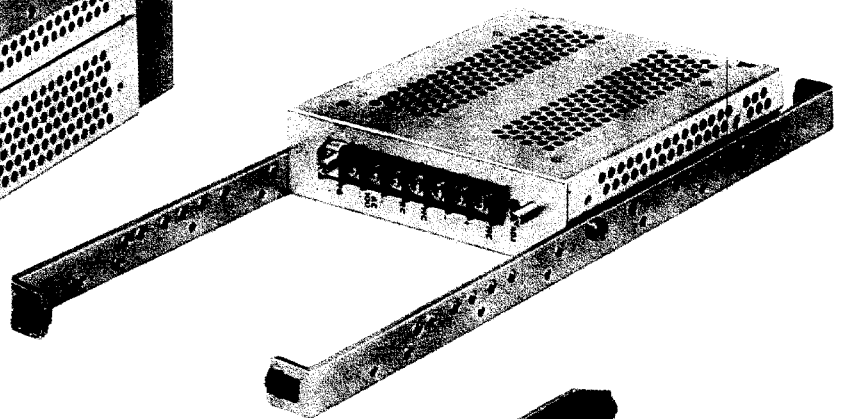
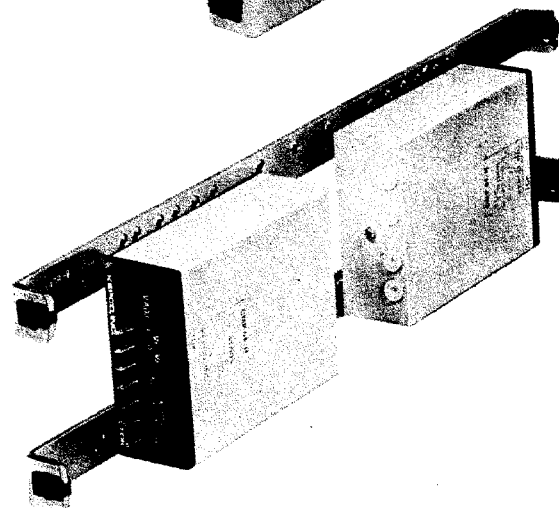


FIG. 4 MODEL RAB 39-40 BRACKETS, MOUNTED ONTO "H"-SIZE UNITS



B) INSTALLATION OF UNITS INTO ADAPTER.

Once the mounting brackets are attached as described, the power supplies may be installed into the rack adapter by bolting the mounting brackets to the front and rear rails, as illustrated in FIG. 5.

NOTE

Remove front and rear cover of the Model RA-39 ADAPTER during installation of the equipment.

The given mounting configurations in FIG. 5 are only a few examples of the many possible ways this adapter can be used. Any mixture of the listed unit sizes can be used, or other configurations may be adapted, as long as the airflow around the installed units is not impeded. As a minimum, one half-inch of space around each unit is recommended.

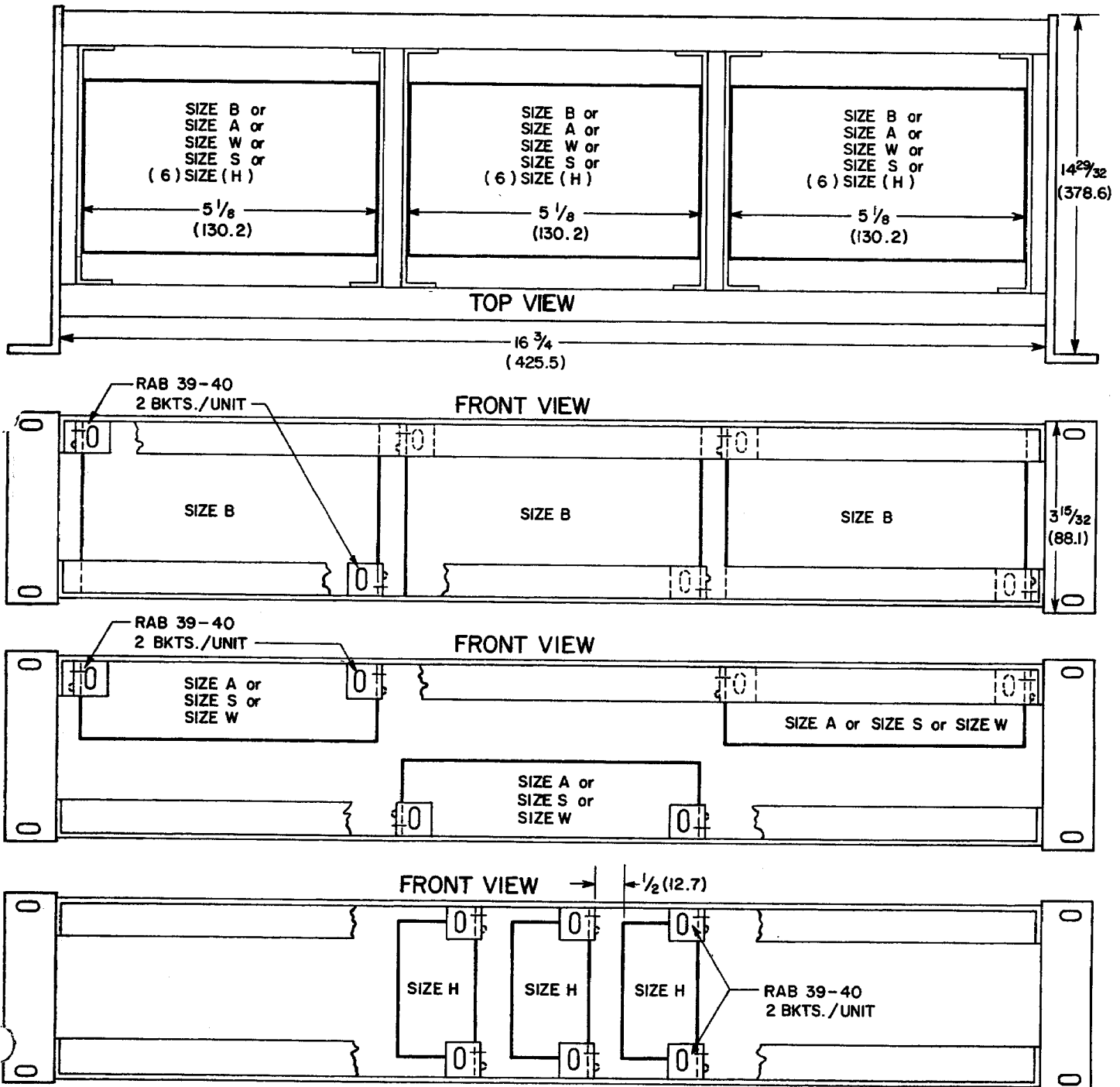


FIG. 5 MODEL RA-39 RACK ADAPTER, SHOWN WITH VARIOUS MOUNTING CONFIGURATIONS.

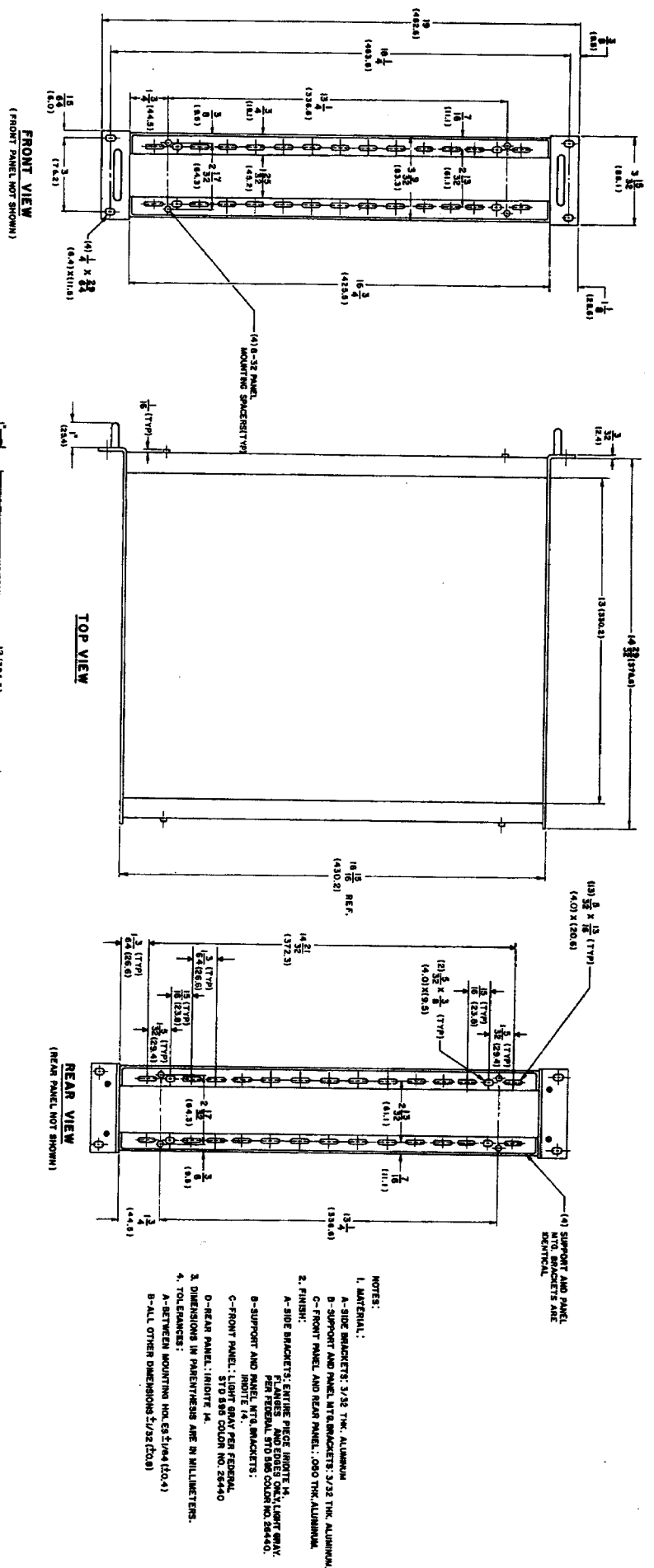


TABLE OF POSSIBLE POWER SUPPLY COMBINATIONS

TOTAL NUMBER OF UNITS	MODEL SIZE				SERIES NO. OF UNITS (MINUS)	TOTAL NUMBER OF UNITS (MINUS)
	H	SA	A	B		
18	1	1	1	1	30	3
15	1	1	1	1	44	7
12	1	1	1	1	44	7
9	1	1	1	1	44	7
6	1	1	1	1	31	3
3	1	1	1	1	31	3

TOTAL NUMBER OF UNITS	MODEL SIZE				SERIES NO. OF UNITS (MINUS)	TOTAL NUMBER OF UNITS (MINUS)
	H	SA	A	B		
3	1	1	1	1	12	3
3	1	1	1	1	12	3
3	1	1	1	1	12	3
3	1	1	1	1	12	3
3	1	1	1	1	12	3

FIG. 6 MECHANICAL OUTLINE DRAWING, KEPSCO MODEL RA-39 RACK-ADAPTER.