QUICK START GUIDE



KEPCO An ISO 9001 Company.

300W, PFC, OPEN FRAME POWER SUPPLIES



I — INTRODUCTION

SCOPE OF MANUAL. This Quick Start Guide covers the installation and operation of the Kepco RMW Series of Open Frame Switching Power Supplies. Full specifications are listed in the Operator Manual that can be downloaded from the Kepco web site:

www.kepcopower.com/support/opmanls.htm#rmw

DESCRIPTION. Kepco RMW Series are 300W RoHScompliant switching power supplies with seven models providing 5V, 12V, 15V, 24V, 28V, 48V and a triple output model (RMW 51212-300K) which provides a primary output of +5V and secondary outputs of ±12V). All models also

include a separate +12V output that can be used to power an external cooling fan and an output suitable for driving an LED. Power Factor Correction (PFC) is included in all models.

Units may be operated with a nominal 115V a-c or 230V a-c (input voltage range 85 to 264 Va-c), 50-60 Hz (input frequency range 47-66Hz). If overvoltage protection trips, the unit shuts down; it is necessary to cycle input power off, then on to reset the unit. Overcurrent protection with automatic recovery from short circuit is featured (except for single-and triple output 5V models that latch off when overcurrent or short-circuit is detected). Units are convection cooled U-chassis construction.

VOLTAGE	5V	5V, ±12V	12V	15V	24V	28V	48V
MODEL	RMW 5-60K	RMW 51212K-300	RMW 12-25K	RMW 15-20K	RMW 24-12K	RMW 28-11K	RMW 48-6.2K

II — INSTALLATION

MOUNTING THE POWER SUPPLY. Refer to Figure 1. The unit may be mounted using 6-32 mounting screws (not supplied). Eight mounting holes are provided: four on the base, and two on each side. Note the restrictions for maximum penetration of mounting screws (see Figure 1).



FIGURE 1. MOUNTING SCREW PENETRATION

CONNECTIONS. All connections are made via TB1 through TB5 (see Figure 2 for locations). AC input power is

applied via the terminal block TB1. Connect the AC input Neutral, Line and Earth Ground wires to the respective terminals of the terminal block (see Figure 2). TB2 provides the DC outputs; see Table 1 for pin allocation. TB3, TB4 and TB5 are each 2-pin connectors that require a Molex 5045-02A (or equivalent) mating connector. TB3 provides a floating +12V output for use with an auxiliary fan (not supplied). TB4 provides ± connections used for remote sensing. TB5 provides connections used to drive an external Power OK LED (not supplied).

Figure 3 shows proper connection of one or more loads. If oscillations set off overvoltage protection, install one electrolytic capacitor (470µF min) between +S and + and one between - and -S terminals.

	OUTPUT TERMINAL										
MODEL	1 2	3	4	5	6	7	8	9	10	11	12
RMW 5-60K	+5V ⁽¹⁾		GND				+5V		RTN (+12V)	+12V	
RMK 51212K-300	+5V		GND				+12V	–12V			
RMW 12-25K	+12V		GND		RTN (+12V)	+12V					
RMW 15-20K	RMW 15-20K +15V		GND		RTN (+12V)	+12V					
RMW 24-12K	+24V	G	ND	RTN (+12V)	+12V						
RMW 28-11K	+28V	G	ND	RTN (+12V)	+12V						
RMW 48-6.2K	+48V	G	ND	RTN (+12V)	+12V						

TABLE 1. TB2 DC OUTPUT PIN ALLOCATION

(1) CAUTION: Limit RMW 5-60K to 15A maximum per output terminal to avoid overheating

KEPCO, INC. • 131-38 SANFORD AVENUE • FLUSHING, NY. 11355 U.S.A. • TEL (718) 461-7000 • FAX (718) 767-1102 http://www.kepcopower.com • email: hq@kepcopower.com



FIGURE 2. COMPONENT LOCATIONS

III — OPERATION

When output voltage is available, the output at TB5 is available to drive an external LED and the +12V output at TB3 is available to power an external cooling fan. The

Output Voltage Adjust trimmer (see Figure 2) allows adjustment of the primary output voltage.



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