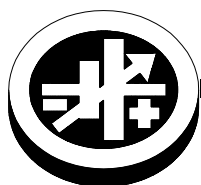


QUICK START GUIDE



KEPCO An ISO 9001 Company.



SINGLE OUTPUT PROGRAMMABLE POWER SUPPLIES

I — INTRODUCTION

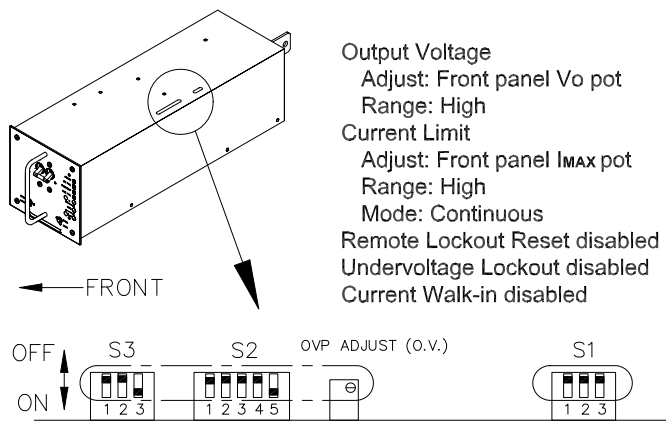
SCOPE OF MANUAL This Quick Start Guide covers the installation and operation of the Kepco HSP Series of voltage and current stabilized d-c power supplies. Full specifications are listed in the applicable Operator's Manual that can be downloaded from the Kepco web site at www.kepcopower.com/support/opman1s.htm/#hsp

FACTORY DEFAULTS This guide covers only units as shipped from the factory with the three DIP switches set to default configuration (see Figure 1). For other configurations, refer to HSP Operator Manual.

DESCRIPTION The HSP power supply (Figure 1-1) is basically a voltage and current stabilized d-c source with a relatively sharp crossover between voltage and current mode operation.

HSP power supplies are nominally rated at either 1000 or 1500 Watts of output power, and include active power factor correction (PFC). HSP 1000W power supplies are designed to operate over the universal a-c power mains voltage range of 90-277V (47-63Hz), with operation from 125-420V d-c also available. HSP 1500W products provide full power over the a-c mains range of range of 180-277V a-c, and 1000W output power from 90-132V a-c; contact Kepco for information on operation over other source voltage ranges. Cooling is provided via an internal d-c fan.

HSP permits adjustment of both output voltage (V_O) and current limit (I_{MAX}), either by internal (front panel pot) or external (resistance or voltage) methods, selected via DIP switches accessed through the top of the unit. Protection against overvoltage, overcurrent and overtemperature failures is provided.



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FIGURE 1. DIP SWITCH FACTORY DEFAULTS

The HSP power supply is specifically designed for use with Kepco RA 60 or similar plug-in rack adapters as a hot replaceable module in a redundant power system. Bench top operation is also supported. Forced current sharing and output blocking diodes enhance power system reliability. Mechanical keying eliminates the risk of incorrect module insertion. Tool-operated latches on the front panel guard against casual removal of an operating module.

OPTIONS M models include a digital meter which displays either voltage or current as determined by a front panel switch. Another switch allows display of either actual HSP Output or the setpoint. B models are intended for battery charging applications, and include a Float/Equalize switch to preset two different voltage values using two separate front panel adjustment pots.

TABLE 1. HSP SERIES MODELS

MODELS ⁽¹⁾	3.3V	5V	12V	15V	24V	28V	48V	125V
1000W	HSP 3.3-230R	HSP 5-200R	HSP 12-84R	HSP 15-66R	HSP 24-42R	HSP 28-36R	HSP 48-21R	HSP 125-8R ⁽²⁾
1500W	N/A	N/A	N/A	HSP 15-100R ⁽²⁾	HSP 24-60R	HSP 28-53R	HSP 48-30R	HSP 125-12R ⁽²⁾

(1) Options include suffix M or B: M for meter; B for battery charger
 (2) CE Marked, UL listing pending.