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HOT SWAP, REDUNDANT, USER CONFIGURABLE, LOW PROFILE POWER SUPPLIES



Three HSP models shown in RA 60 Housing

SERIES HSP

The Kepco HSP series comprises a group of ten models, seven 1000 watt power supplies with outputs from 3.3 volts to 48 volts and three 1500 watt power supplies with outputs from 24 volts to 48 volts. All models feature current-sharing for parallel redundant N+1 operation. Models with the OR-ing diode (suffix R), are capable of hot swapping when plugged into Kepco's RA 60 series rack adapter. A mechanical keying scheme allows the user to define which power supply will plug into a specified slot in the housing. Output voltage and current limit settings are adjustable either remotely or from the front panel.

HSP FEATURES

- Remote sensing (0.5V for 3.3 and 5V models, 0.8V for all others).
- Control/programming of the voltage channel, current limit, overvoltage set point. Output voltage and current limit are remotely adjustable via 0-5V or 0-10V analog voltage; additionally, output voltage is remotely trimmable by resistance. Both the output voltage and current limit are adjustable over the range 20%-100%.
- Setpoint monitors for voltage and current permit online adjustment of output limits.
- Switch selectable Bellcore-type current "walk-in" characteristic for battery charger applications.
- Front panel status indicators, duplicated by form C relay contact status flags at rear panel connector: POWER, DC FAIL, OVERTEMP, FAN FAIL.
- Safety Agency Approvals: Recognized component operation from a-c mains (Class I) with SELV output per UL 60950 (3rd Ed) and CAN/CSA 22.2 No, 60950-00, CE Marking to EN 60950 (3rd Ed).
- HSP are capable of sustaining full load operation through the loss of one full mains cycle at any source voltage without indication of failure. If mains power is lost for more than one cycle, HSP provides a flag, a minimum of 5 milliseconds before the output loses regulation. Total effective hold-up time exceeds 27 milliseconds.
- 5" x 5" cross-section plug-ins meet EIA standard for 3U height. Fit three abreast in EIA standard 19" equipment racks (four abreast in 24" racks).
- HSP are fully protected for any overload including a short circuit. Normal overload protection is continuous current limiting. A switch selectable option will latch the power off after 20 seconds to avoid damage to load wires. An overvoltage protector latches the power off whenever the output exceeds a user-set limit.
- Remote control of HSP is provided via one of two isolated TTL-level signals, one normally high and the other normally low. An internal 5V supply powers this circuit and provides the auxiliary 5V, 100mA output. This voltage is available whenever source power is applied, whether or not the main output is inhibited. The main output is normally ON if no remote logic is applied.
- HSP meet all EN50082-2 (heavy industrial) immunity levels including mains lightning surge. See also ANSI C62.41.
- Meter option displays actual and programmed values of voltage and current.

TYPICAL APPLICATIONS

- Redundant Power for Industrial Control Loops
- LED Signage and Monitors
- Battery Charging
- Wireless Base Stations
- Margin Testing

INDUSTRIES

- Oil, Gas & Petrochemical
- Semiconductor
- Wireless Telecom
- Programmable Signs
- Railway Signalling

UL RECOGNIZED CSA CERTIFIED VDE APPROVED

This KEPCO product is backed by a firm 5-YEAR WARRANTY



Metered Version HSP
(Add suffix "M" to the model number)

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HSP MODEL TABLE

SPECIFICATION	OUTPUT VOLTAGE		OVP SETTING	RATED OUTPUT CURRENT			RIPPLE		NOISE	EFFICIENCY
Unit	Volts		Volts	Amps			mV p-p		mV p-p	Percent
Condition	Factory Set	Adjustment Range	Factory Setpoint	50°C	60°C	71°C	Source max	Switching max	(Spike) 20MHz	100% Load Nominal input
1000 WATT MODELS										
HSP 3.3-230R	3.3	0.7-3.6	4.29	230	173	105	20	30	100	68
HSP 5-200R	5	1.0-5.5	6.5	200	150	95	20	30	100	69
HSP 12-84R	12	2.4-13.2	15.6	84	63	40	20	40	120	71
HSP 15-66R	15	3.0-16.5	19.5	66	49.5	31.4	20	40	150	74
HSP 24-42R	24	4.8-26.4	31.2	42	31.5	20	20	60	240	75
HSP 28-36R	28	5.6-30.8	36.4	36	27	17	20	60	280	76
HSP 48-21R	48	9.6-59.2	62.4	21	16	10	20	60	480	78
1500 WATT MODELS										
HSP 24-60R	24	4.8-26.4	31.2	60	45	28.6	20	60	120	75
HSP 28-53R	28	5.6-30.8	36.4	53	39.8	25.2	20	60	140	76
HSP 48-30R	48	9.6-59.2	62.4	30	22.5	14.3	20	60	240	78

Add suffix "M" to the model number, e.g. HSP 24-42MR, to designate factory installed voltmeter/ammeter.

FIGURE 5
HSP Output Power vs. Ambient Temperature

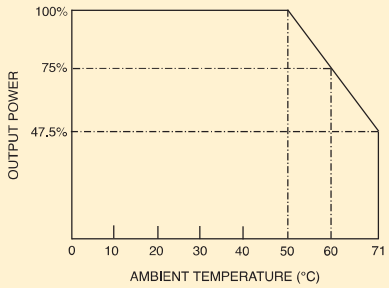
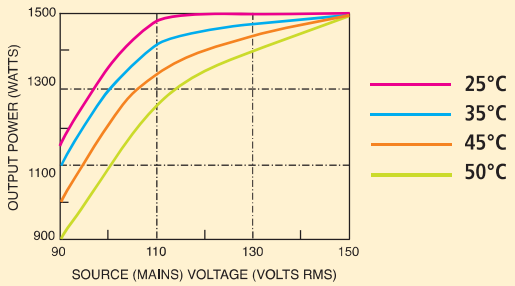
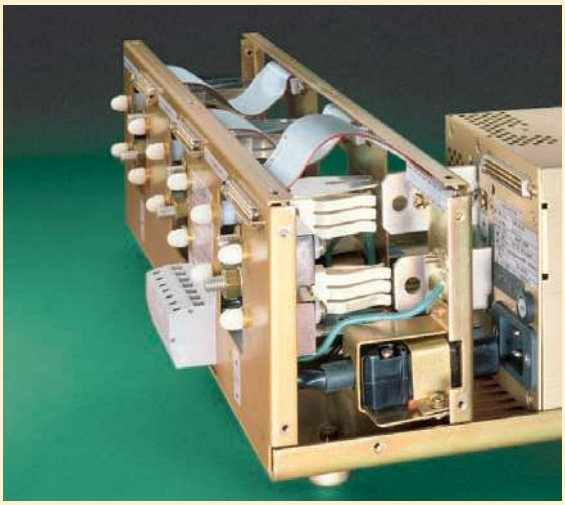


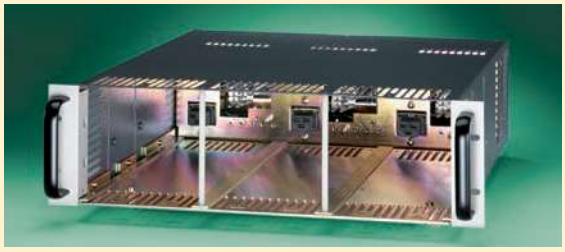
FIGURE 6
HSP 1500W Output Power vs. Source Voltage for Various Ambient Temperatures



For full product specs:
www.kepcopower.com/hsp.htm



Rear view, cover removed, of the rack housing showing the heavy-duty bus-bar connections that make HSP's "Hot Swap" practical



RA 60

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