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Find the *KGS Electronics HS100* at our website: *Click HERE*

HS & HB Series TSO'D 50 Hz/60 Hz Lightweight Frequency Changer

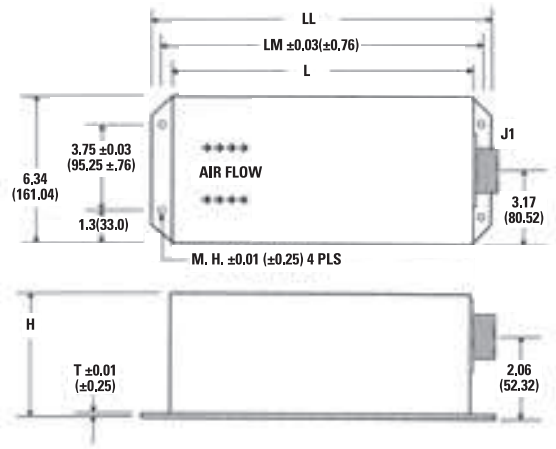
The HS and HB series are lightweight frequency changers. These models utilize the latest state of the art, solid state circuitry to convert a 115/200VAC, three-phase, 400 Hz input to either a 115VAC, 60 Hz or 230VAC, 50 Hz sine wave output.

Design features include a crystal controlled oscillator for output frequency stability and a pulse-width-modulated square to sine wave power conversion scheme for reliable and quiet operation.

The model HS and HB series frequency changers are designed to operate television sets, video cassette recorders (VCR), stereo entertainment systems, computers, coffee makers, microwave ovens and EMS equipment.

P/N HS
P/N HB

Outline Dimensions



Specifications

Input Voltage	115/200VAC ± 10VAC, 3-phase
Input Frequency	400 Hz ±100 Hz
Output Wave Form	Sine
Output Phase	Single
Harmonic Distortion	0.5% (nominal)
Power Factor	+.8 to -0.8
Efficiency	87% (nominal)
Response Time	300 uSec (no load to full load)
Regulation	1% Line, 1% load, 2.5% temperature
Overload Capacity	110% of the rated power for 2 hrs. 150% of rated output current for 5 min. (minimum) When the operating temp. > 55°C, the overload setting is internally limited to 135% ±10% of the rated output power
Protection Circuits	The converter will shutdown under the following conditions: • Input voltage > 135VAC ± 5VAC; Input voltage < 95VAC ± 5VAC • Internal, high ambient temperature; Short circuit condition.
Remote On-Off	Yes
Operating Temperature	-55°C to 71°C (-65°F to + 160°F)
Altitude	55,000'
Environmental Test Conditions	DO-160C environmental category F3ZBB(LV)XXXXXXBXAXXXBXXX
Cooling	Thermostatically controlled, brushless fan.
Compliance	FAA TSO-C73



Model	Input Current (ADC)	Voltage (VRMS) ±5%	Output Current (ARMS)	Frequency (Hz) ±.5 Hz	Power (VA)	Dimensions (See Figure 1) LL Inch (1c mm)	LM Inch (1c mm)	L Inch (1c mm)	T Inch (1c mm)	M.H. Inch (1c mm)	Weight LBS (KG) ±5%
HS50	2	115	4.3	60	500	9.50 (241.30)	8.75 (222.25)	8.09 (205.49)	0.06 (1.52)	0.20 (5.08)	4.40 (2.00)
HS100	3.4	115	8.7	60	1,000	12.00 (304.80)	11.25 (285.75)	10.60 (269.24)	0.08 (2.03)	0.28 (7.11)	7.50 (3.40)
HB100	3.4	230	4.3	50	1,000	12.00 (304.80)	11.25 (285.75)	10.60 (269.24)	0.08 (2.03)	0.28 (7.11)	7.50 (3.40)

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