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HS & HB MODELS

TSO'D 50/60 Hz AC Frequency Converter
500 to 1200VA

The HS and HB series are lightweight, AC frequency power converters. These models utilize the latest state of the art solid state circuitry to convert a 115/200 VAC, 3 phase, 400 Hz input to either a 115 VAC, 60 Hz or 230 VAC, 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 efficient & reliable operation.



The model HS and HB Series frequency changers are designed to power laptop computers, audio/video entertainment systems, portable electronics (stereo, MP3, CD, DVD, video games, etc.), microwave ovens, coffee makers and medical equipment in airborne, marine and ground mobile applications.

Specifications:	
Input Voltage:	115/200 VAC ± 10 VAC, 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% Temp.
Overload Capacity:	110% of the rated output power for a period of 2 hours; 150% of the rated output current for a period of 5 minutes (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 > 135 VAC ± 5 VAC • Input voltage < 95 VAC ± 5 VAC • 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 Ft.
Environmental:	DO-160C env. cat. F3ZBB[LV]XXXXXXBXAXXXBXXX
Cooling:	Thermostatically controlled, brushless fan.
Compliance:	FAA TSO-C73

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Model	Input Current (A/PH)	Output				Dimensions (See Figure 1)					Wt Lb (Kg) ±5%
		Voltage (VRMS) ±5%	Current (A RMS)	Frequency (Hz) ±.5 Hz	Power (VA)	LL Inch (MM)	LM Inch (MM)	L Inch (MM)	T Inch (MM)	M.H. Inch (MM)	
HS50	2.0	115	4.3	60	500	9.50 (241.30)	8.75 (222.25)	8.09 (205.49)	.06 (1.52)	.20 (5.08)	4.4 (2.00)
HS100	3.4	115	8.7	60	1000	12.00 (304.80)	11.25 (285.75)	10.60 (269.64)	.08 (2.03)	.28 (7.11)	7.5 (3.40)
HS120	4.5	115	10.4	60	1200	12.00 (304.80)	11.25 (285.75)	10.60 (269.64)	.08 (2.03)	.28 (7.11)	7.5 (3.40)
HB100	3.4	230	4.3	50	1000	12.00 (304.80)	11.25 (285.75)	10.60 (269.64)	.08 (2.03)	.28 (7.11)	7.5 (3.40)
HB120	4.5	230	5.2	50	1200	12.00 (304.80)	11.25 (285.75)	10.60 (269.64)	.08 (2.03)	.28 (7.11)	7.5 (3.40)

PINS	HS50	HS100/HS120	HB100/HB120
A	OUTPUT 116 VAC, 60 Hz	OUTPUT 116 VAC, 60Hz	OUTPUT 230 VAC, 50Hz
B	INPUT Ø A, 115/200 VAC	INPUT Ø A, 115/200 VAC	INPUT Ø A, 115/200 VAC
C	INPUT Ø B, 115/200 VAC	INPUT ØB, 115/200 VAC	INPUT ØB, 115/200 VAC
D	OUTPUT RETURN (NEUTRAL)	OUTPUT RETURN (NEUTRAL)	OUTPUT RETURN (NEUTRAL)
E	INPUT ØC, 115/200 VAC	INPUT Ø C, 115/200 VAC	INPUT Ø C, 115/230 VAC
F	REMOTE ON-OFF	REMOTE ON-OFF	REMOTE ON-OFF
G	INPUT RETURN, CHASSIS GND	INPUT RETURN, CHASSIS GND	INPUT RETURN, CHASSIS GND
MATE	MS3106A18-9S OR EQUIV.	MS3106A18-9SW OR EQUIV.	MS3106A18-9SW OR EQUIV.

OUTLINE DIMENSIONS

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