

HS200 & HB200

TSO'D 50/60 Hz AC Frequency Converters 2 KVA SINEWAVE

Description:

The HS200 & HB200 are highly efficient, lightweight AC frequency power converters. These models utilize the latest state of the art solid state circuitry to convert a 115/200 Vac, 400 Hz, 3 PH input to 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 and reliable operation.



The HS200 and HB200 static 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 \pm 10 Vac	
Input Frequency:	400 Hz \pm 200 Hz	
Model:	HS200	HB200
Output Voltage:	115 Vac (108 to 120 Vac)	230 Vac (216 to 240 Vac)
Output Frequency:	60 HZ (\pm 0.1 Hz)	50 HZ (\pm 0.1 Hz)
Output Wave Form:	Sine	
Harmonic Distortion:	0.5 % (nominal)	
Power Factor:	+0.8 TO -0.8	
Output Phase:	Single	
Efficiency:	87 % (nominal)	
Response Time:	300 uSec (No Load to Full Load)	
Regulation:	1 % Line, 1 % Load, 2.5 % Temperature	
Overload Capacity:	110 % of rated power for 2 hrs, 150 % of rated power for 5 minutes	
Protection Circuit:	The inverter will shutdown under the following conditions: <ul style="list-style-type: none">• Input voltage $>137 \pm 5$Vac.• Input voltage < 80Vac \pm 20Vac.• Internal high ambient temperature.• Short circuit condition (after 2 to 15 Sec)(manual reset)	
Remote On/Off	Yes	
Operating Temperature:	-55 ° C to +71 ° C (-65 ° F to +160 ° F)	
Altitude:	55,000 ft	
Environmental:	RTCA DO-160C Env. Cat. F3ZBB[LV] E1XXXXXBXXXXBXXX	
Cooling:	Thermostatically controlled brushless fan (ON above 50 ° C)	
Weight:	17.7 lbs (8.04 kgs)	
Compliance:	FAA TSO-C73	