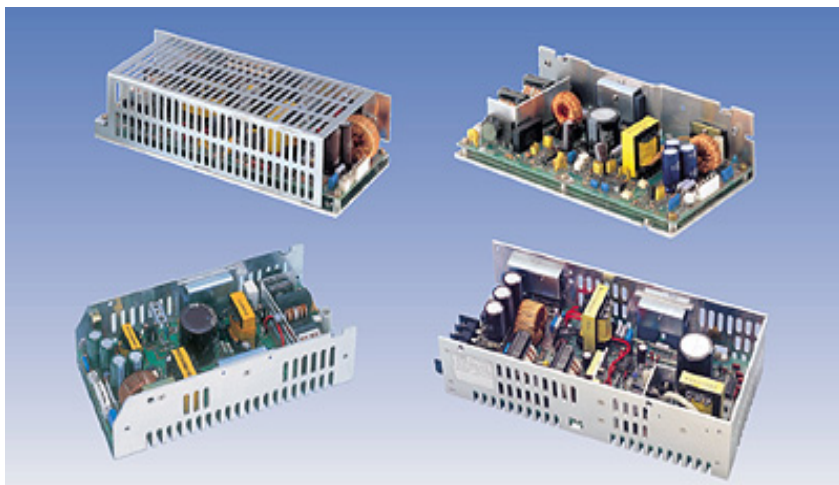


240 WATT AC-DC CONVERTER PFE-HSX-U1 SERIES Universal Input

PFE-HSX-U1 SERIES



General Description

"PF"-Series AC/DC Switching power supplies has been designed to meet harmonic current distortion. PF series has the 75 W PFC with the peak of 150 W, the 120W PFD with peak of 240W and 240 W PFE with peak of 480 W. They are suitable for motor drive.

Features

- Low line distortion
- Power Factor correction
- Pulse load response
- Cost effective
- Designed for peak loads (twice rated output)
- Universal input

Options

- *Cover (add suffix "-P")
- *Wire/harness 40cm
- *Remote control (add suffix "-R" or "-RR")

Certified:



Application

Broad needs

Input

Input Voltage:	AC100-240V
Input Voltage Range:	AC85~264V
Input Current:	1.8-4.0A
Frequency:	50/60Hz
Frequency Range:	47-63Hz
Phase:	Single
Inrush Current: *1	18A(max) at AC100VAC
	40A (Typ.) 230VAC

Output Characteristic		Models			
	Unit	PFE12HSX-U1	PFE24HSX-U1	PFE36HSX-U1	PFE48HSX-U1
Output Voltage	Vdc	12	24	36	48
Output Current	A	18 / Φ 36	10 / Φ 20	6.7 / Φ 13.4	5.5 / Φ 10
Voltage Adjust Range	V	\pm 10% of Rated Output Voltage (at no load within the input range)			
Ripple & Noise(max)*3	mVpp	300	300	300	300
Rise up time	mS	500mS(maximum) at 25°C and rated input/output			
Hold up time	mS	50mS(minimum) at 25°C and rated input/output			
Regulation					
a. Line Regulation	mV	60	120	180	240
b. Load Regulation *3	mV	120	240	360	480
c. Temperature Coefficient *4	°C	0.03%/°C			
d. Drift(maximum) *5	mV	75	135	195	255
e. Dynamic Load Regulation (typ.) *6	mV	360	720	1080	1440
f. Recovery Time *6	mS	0.5mS(typical)			
Efficiency *2	%	78 / 81	82/85	83/86	84/87
Power Factor		0.99 Typ. AC100 [V] / 0.95 Typ. AC230 [V]			

Conditions:

*1 cold start

*2 at AC100/230V input, rated output and 25°C

*3 measured by a bayonet probe at the output connector at a 0 to 100MHz bandwidth

*4 at -10 to +50°C

*5 for 7hour period after 1hour warm-up at 25°C and rated input/output

*6 when output current changed from 50% to 150% of rated output current rapidly at rated input

*7 safety approved at 25°C


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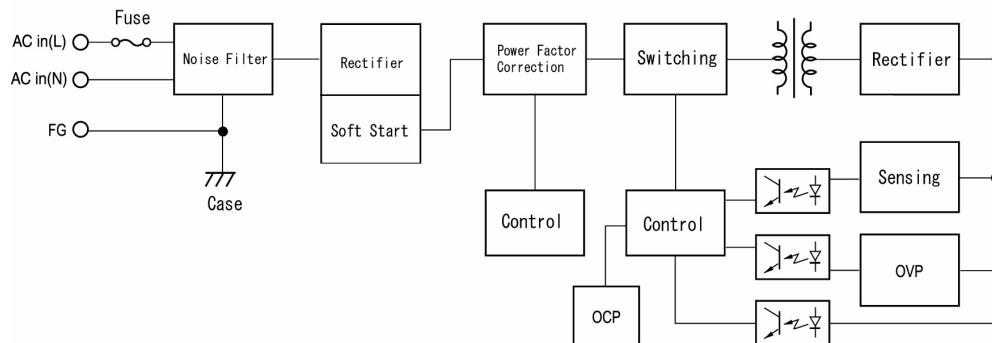
HIGH QUALITY SWITCHING POWER SUPPLIES

ETA-USA Tel: 408-778-2793 Fax: 408-779-2753 e-mail: sales@eta-usa.com

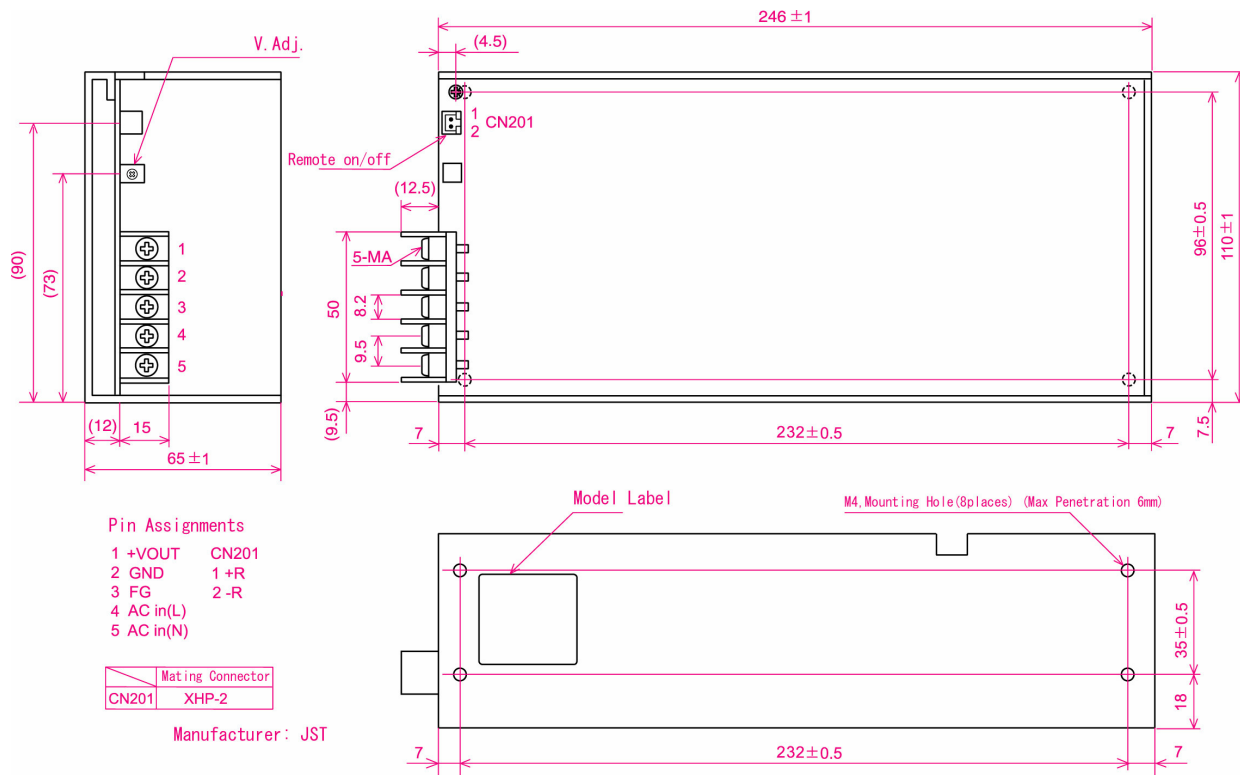
Environmental Specification	
Operating Temperature*7	-10 to +45 °C
Operating Humidity	20 to 85%/RH(non-condensing)
Storage Temperature	-20 to +85 °C
Storage Humidity	10 to 85%/RH(non-condensing)
Withstanding Voltage	Primary-Secondary AC3,000V for 1minute Primary-Frame Ground AC2,500V for 1minute Secondary-Frame Ground AC500V for 1minute
Isolation Resistance	Primary-Secondary-Frame Ground 50MΩ (minimum) by DC500V insulation tester
Vibration	5-10Hz:10mm double amplitude,10-55Hz:19.6m/s ² ,20minutes' period for 60minutes each along X,Y,Z axes (non-operating)
Shock	294m/s ²
Cooling	Convection
Environmental Agencies	
Line Conducted Noise	Built to meet FCC Part15-B Class B Built to meet VCCI Class B Built to meet EN55022 Class B
Line Harmonic Distortion	Built to meet IEC1000-3-2
Safety	UL: UL60950, IEC950 C-UL: CSA C22.2 No.950 VDE EN60950, IEC950, VDE0805
MTBF [H]	229,000
Switching Frequency[kHz]	140 (typ.)
Function/Protection	
Over current Protection	Current Limiting with automatic recovery
Over voltage Protection (≥ 115% of Rated Output Voltage[V])	output shutdown(to reset, leave 3 minutes after shut-off)
Remote Sense	not available
Remote On/Off	option
Power Fail Detection	not available
Series Operation	not available
Parallel Operation	not available
Mechanical	
Dimension [mm]	110W × 246L × 65H
Weight [g] (typical)	1200g enclosed type:1400g



BLOCK DIAGRAM



DIMENSION DIAGRAM



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