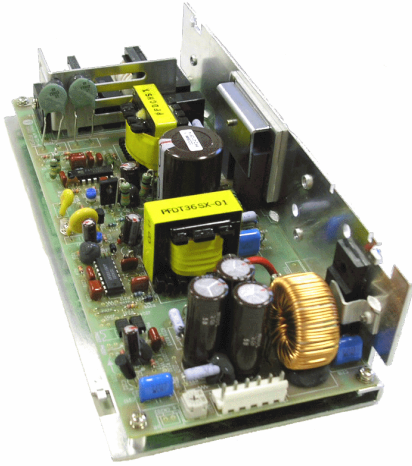


# 240 WATT AC-DC CONVERTER PFE-HSX SERIES



## 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.

## Application

Broad needs

## Input

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

## 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:



Specifications PFE**HSX 240W ATTS(Peak 400 to 480W)/SINGLE	Model		
	PFE12HSX	PFE24HSX	PFE36HSX
Input Voltage	AC100-230V		
Input Current	4.0-1.8A		
Input Range	AC85-264V		
Input Frequency	50/60Hz		
Input Frequency Range	47-63Hz		
Phase	Single		
Inrush Current *1	18A(maximum) at AC100V/40A(maximum) at AC230V		
Efficiency [%] (typical) *2	78/81	82/85	83/86
Power Factor	0.99(typical) at AC100V/0.95(typical) at AC230V		
Output Voltage [V]	12	24	36
Output Current [A]	18(Peak36)	10(Peak20)	6.7(Peak13.4)
Voltage Adjust Range	+/- 10% of Rated Output Voltage(at no load within the input range)		
Ripple and Noise [mVp-p](maximum) *3	300	300	300
Regulation			
a.Line Regulation [mV](maximum)	60	120	180
b.Load Regulation [mV](maximum)	120	240	360
c.Temperature Coefficient *4	0.03%/°C		
d.Drift[mV](maximum) *5	75	135	195
e.Dynamic Load Regulation [mV](typical) *6	360	720	1080
f.Recovery Time *6	0.5mS(typical)		
Rise up time	500mS(maximum) at 25°C and rated input/output		
Hold up time	50mS(minimum) at 25°C and rated input/output		
Overcurrent Protection	Current Limiting with automatic recovery		
Overvoltage Protection	output shutdown(to reset,leave 3minutes after shut-off)		
>=115% of Rated Output Voltage[V]	13.8	27.6	41.4
Remote Sense	not available		
Remote On/Off	option		
Power Fail Detection	not available		
Parallel/series Operation	not available		
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/√,20minutes' period for 60minutes each along X,Y,Z axes(non-operating)		
Shock	294m/s <sup>2</sup>		
Cooling	Convection		
Leakage Current	0.75mA(maximum) at 25°C,rated input/output and rated input frequency		
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	Built to meet UL1950 Built to meet CSA C22.2 No.950 Built to meet EN60950, IEC950, VDE0805		
Weight (typical)	1200g/enclosed type:1400g		
MTBF [H]	229,000		
Switching Frequency[kHz](typical)	140		

Conditions:

\*1 at 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

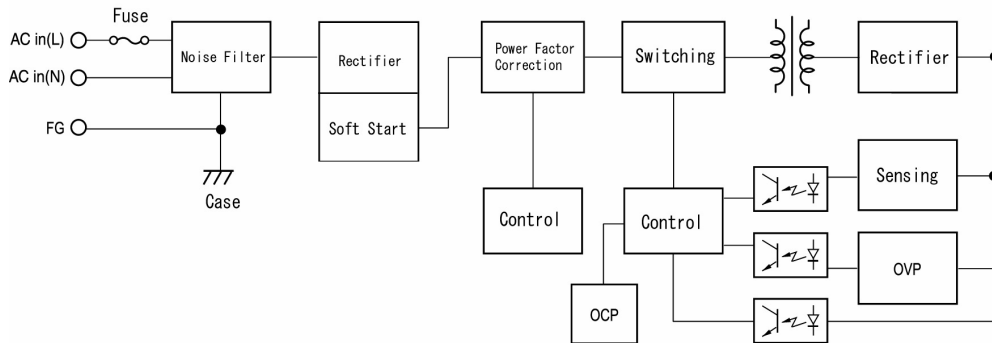
\*4 at -10 to +45°C

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

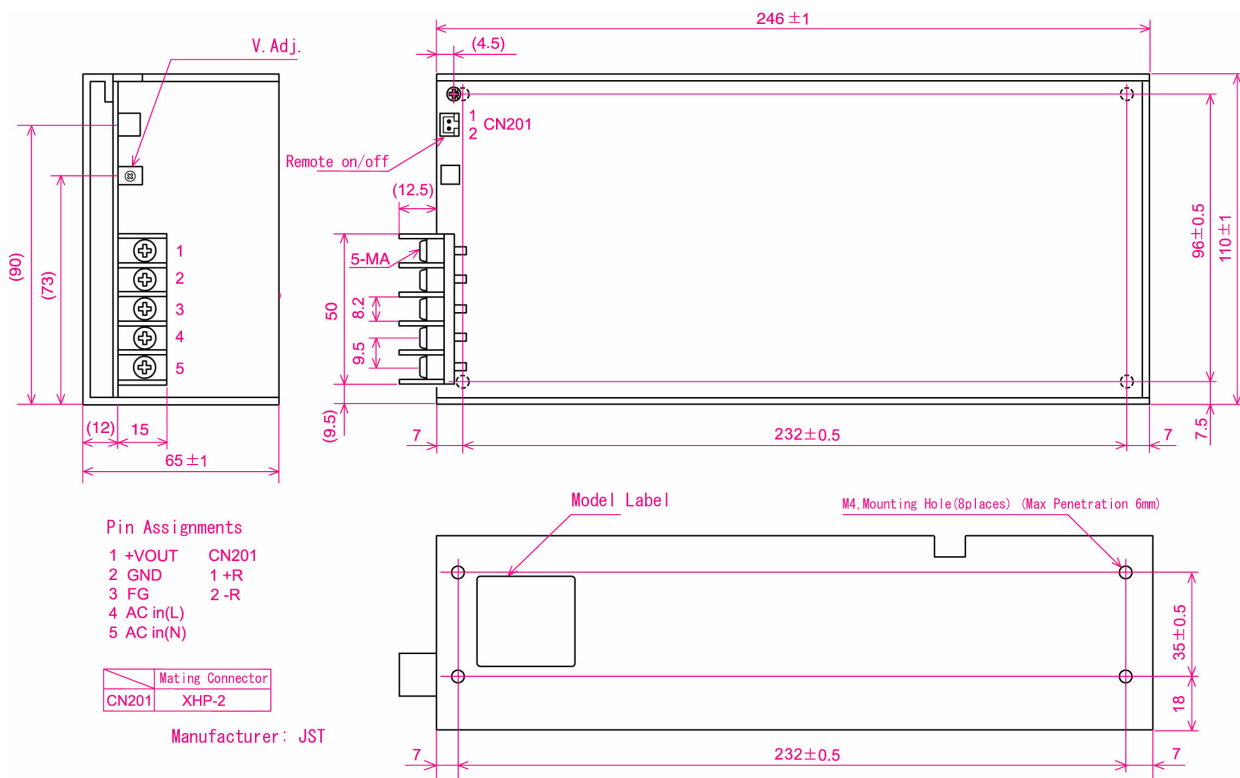
\*6 when output current changed from 50% to 150% of rated output current rapidly at rated input

\*7 safety approved at 25°C

## BLOCK DIAGRAM



## DIMENSION DIAGRAM



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