

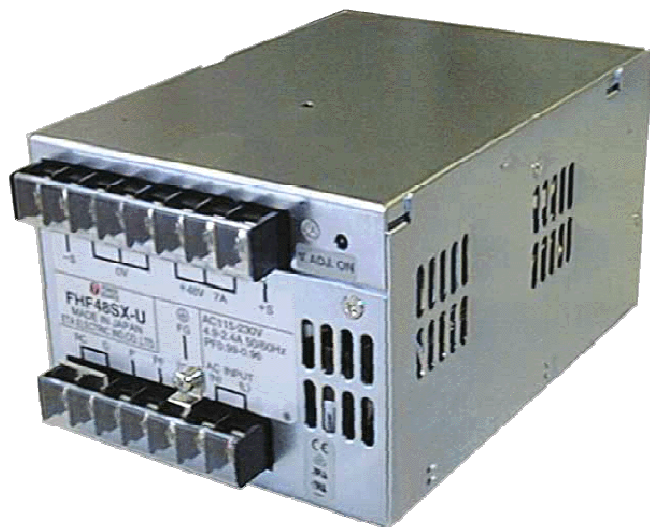


ETA-USA

HIGH QUALITY SWITCHING POWER SUPPLIES

AC/DC SWITCHING POWER SUPPLY
AC INPUT 85~264
SINGLE CHANNEL OUTPUT
300 WATTS

FHF-SX-U1 SERIES



General Description

FH-Series is a new generation of power supplies. It's the latest design following international standards and market demands. This type of power supply has all in one: These supplies incorporate Power Factor Correction (PFC), low line distortion per IEC61000-3-2 and universal inputs. (EMI) complies with VDE 0871/B, EN50022/B, FCC level B. Safety complies with VDE/EN 60950-1, CSA 234. Size is compatible with WR-series. High efficiency and near unity power factor: an optimal combination of cost and performance for both power user and supplier.

Application

Industrial

Input

Input Voltage Nominal: AC115-230V
Input Voltage Range: AC85-264V
Input Current: 2.4-4.9A
Frequency: 50/60Hz
Input Frequency Range: 47-63Hz
Phase: Single
Inrush Current: *1 12A(max.) at AC115V
24A(max.) at AC230V
Leakage Current: 1mA(maximum) at 25°C
(rated input/output and
rated input frequency)

Features

1. Power factor correction
2. Power factor > .98
3. Immunity against surge and burst

Options

N/A



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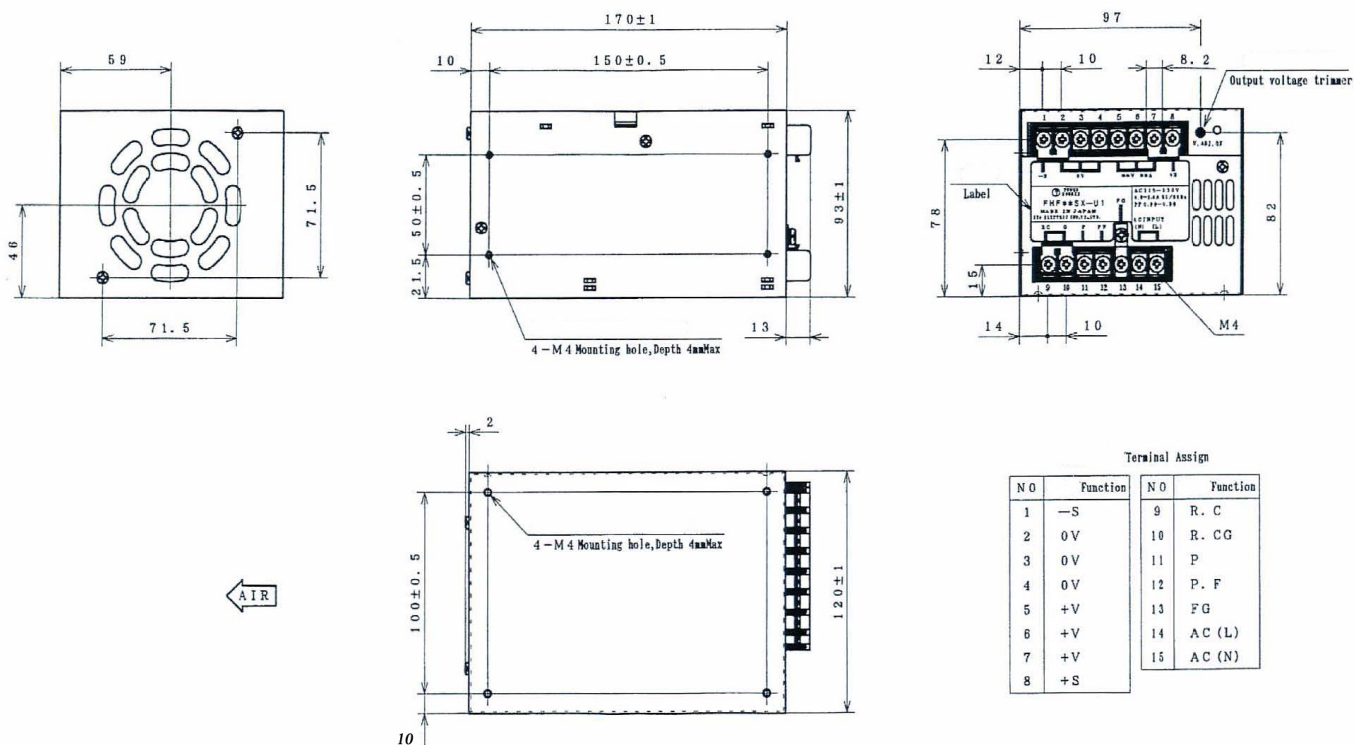
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HIGH QUALITY SWITCHING POWER SUPPLIES

DIMENSION DIAGRAM (mm)



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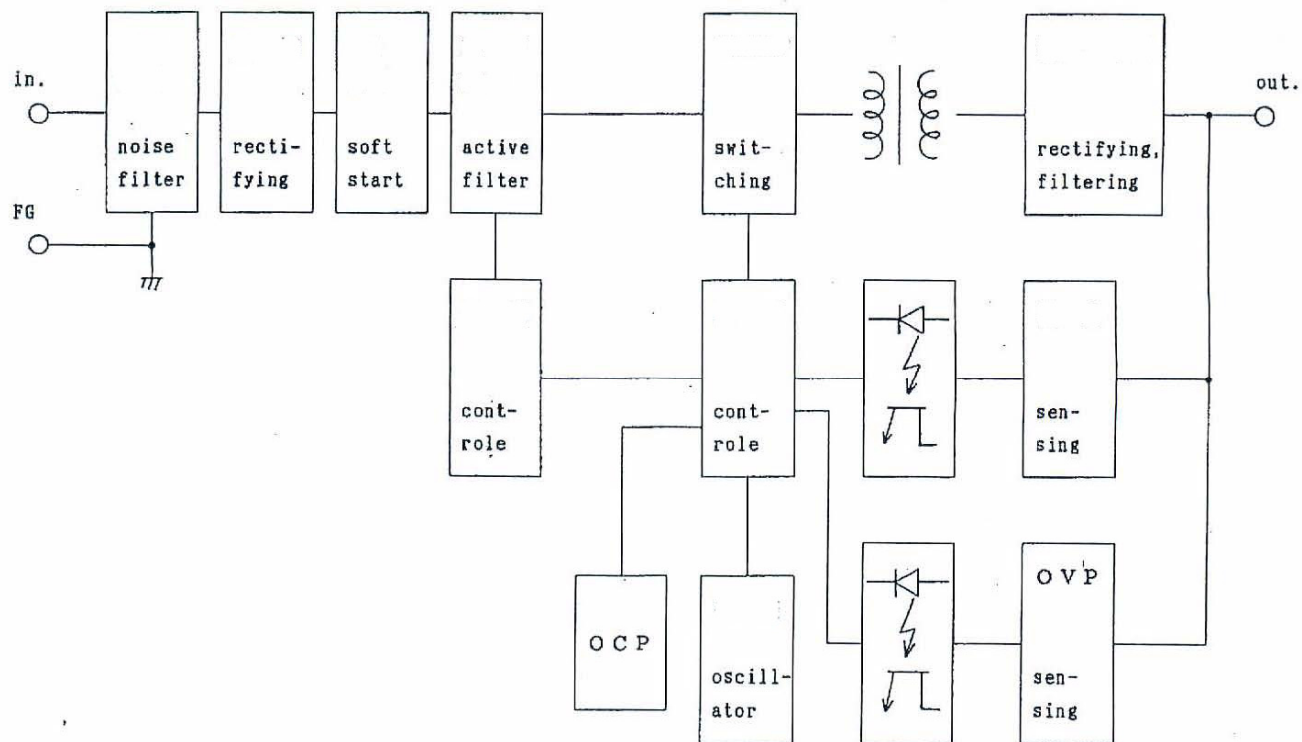
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BLOCK DIAGRAM



MODEL	OUTPUT		EFFICIENCY
	VOLTAGE	CURRENT	
FHF 3.3SX	3.3V	60A	67%
FHF 05SX	5V	60A	72%
FHF 06SX	6V	50A	73%
FHF 12SX	12V	27A	75%
FHF 15SX	15V	22A	76%
FHF 24SX	24V	14A	78%
FHF 30SX	30V	11A	78%
FHF 36SX	36V	9A	78%
FHF 48SX	48V	7A	80%



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Environmental Specification	
Operating Temperature	-5 to +50°C
Operating Humidity	30 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 VDE0801 Class B
Line Harmonic Distortion	Built to meet IEC61000-3-2
Safety	UL:60950-1 2 nd edition C-UL: CSA C22.2 No.950 VDE EN60950-1 2006, IEC950, VDE0805
MTBF [H]	130,000
Switching Frequency[kHz]	100(typ.)
Function/Protection	
Over current Protection	Available
Over voltage Protection	Available
Remote Sense	Available
Remote On/Off	Available
Power Fail Detection	
Series Operation	Available
Parallel Operation	Available
Mechanical	
Dimension [mm]	~119.9 x 169.9 x 93.0
Weight [g](typical)	1900g

Conditions:

- *1 cold start
- *2 measured by a bayonet probe at the output connector at a 0 to 100MHz bandwidth
- *3 when output current changed from 50% to 150% of rated output current rapidly at rated input
- *4 at -10 to +50°C
- *5 for 7hour period after 1hour warm-up at 25°C and rated input/output
- *6 safety approved at 25°C



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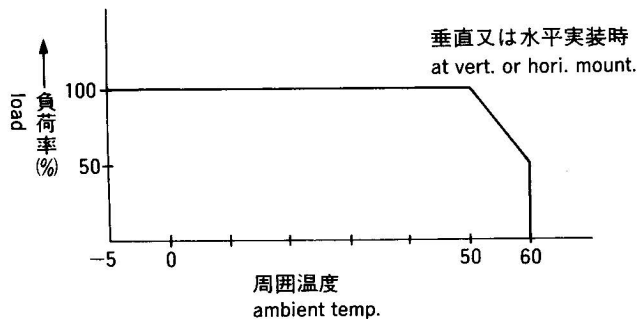


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HIGH QUALITY SWITCHING POWER SUPPLIES

DERATING CURVE

OUTPUT DERATING

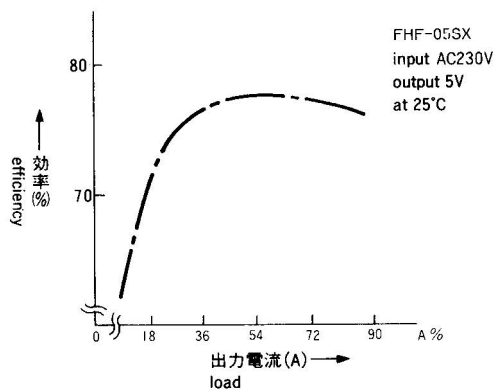
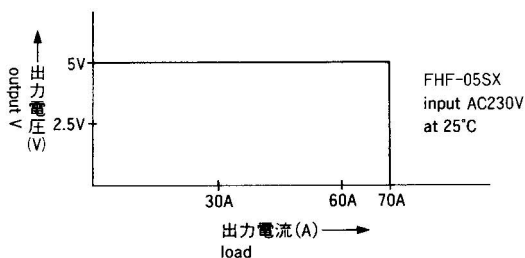


※安全規格取得条件については、都度ご確認ください。
for further information contact safety approvals.

EFFICIENCY CURVE

OCP CURVE

Load & Output V.



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