

40W~48W 12v Series Adapter

FSP040~48 RHAN3 Series



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FEATURES

- · Certified IEC 62368-1 & CB 60950-1
- · Peak current function
- Meet Energy Efficiency DOE Level VI
- · Meet Code of Conduct Version 5 Tier 2
- High Reliability
- · Low Profile
- **Over Current Protection**
- · Over Temperature Protection
- · Over Voltage Protection
- · With PFC Circuit

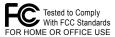
SAFETY STANDARD APPROVAL











DESCRIPTION

This product is a 40~48 watts AC to DC adapter intended for use in IPC systems, embedded systems, printers, monitors, Charging system and POS systems, that have a high wattage demands. This adapter operates at 90 to 264 VAC input voltage. The unit meets CISPR32 EN55032 CLASS B, EN55024 and FCC PART 15B Class B emission limits, and is designed for ITE application.

INPUT SPECIFICATIONS

90-264 VAC Input voltage: Input frequency: 47-63 Hz

Input current: 100Vac, 240Vac / full load ≤ 1.5A No load power consumption 115Vac, 230Vac ≤ 0.075 W Touch current: $264Vac / 50Hz \leq 0.25mA$

OUTPUT SPECIFICATIONS

Output voltage/current: See rating chart Total output power: See rating chart Protection:

Over voltage:

The adapter will enter into shut down that means no output while over voltage happened at output terminal that caused by internal fault, the output trip voltage shall not exceed 18 vlots. That will be return to normal state by AC reset When an internal fault occurs, or an external fault is applied to the output, the power suppy shall shut down and

Over current:

Over temperature:

Short circuit &

The power supply will enter into shut down while the abnormal thermal rise occurs. That will be return to normal

state by AC reset. Shutdown and no damage

Brown-out

Environment

Working TEMP. 0~70°C (> 40°C de-rating)

Storage TEMP. -20~+80°C

20~80% RH non-condensing Working Humidity 10~90% RH non-condensing Storage Humidity

INPUT SPECIFICATIONS

Power factor: See rating chart Efficiency:

At 100Vac / full load, output voltage shall remain regulation ≤ Power turn-on time

Hold-up time: At 100Vac or 240Vac / full load, output voltage shall remain regulation ≥5ms

100Vac, 240Vac / full load , Shall be less than the rating of Inrush current:

adapter critical component (including rectifiers, fuse surge and current limiting device)

Operating altitude: 5000 meters above sea level

Withstand voltage: Between AC input and secondary applied DC 4242V, test time

1 minute, cut off current shall be less than 10mA

100Vac, 240Vac / full load, 300,000 hours at 25°C, standard MTBF.

SR332

EMC Performance: EN55032 Class B conducted, class B radiated FCC Class B conducted, class B radiated VCCI Class B conducted, class B radiated EN61000-3-2 N/A (<75W)

EN61000-3-3 Meet regulation

EN61000-4-3

FSP048-RHAN3

EN61000-4-2 Air discharge: ±15KV,contact discharge: ±8KV, meet criterion A 80 ~1000 MHz,3V/m,80% AM(1kHz),meet criterion A

Impulse: ± 1kV applied to L,N,meet criterion A

EN61000-4-4 ±1kV applied differential mode, meet criterion A, ±2kV applied EN61000-4-5 common mode.meet criterion A

EN61000-4-6 0.15 ~ 80 MHz,3Vrms,80% AM(1kHz),meet criterion A

EN61000-4-8 50 Hz or 60Hz,1A/m,meet criterion A

EN61000-4-11 Voltage Dips

>95% reduction for 0.5 period, meet criterion B 30% reduction for 25 period, meet criterion C

Voltage Interruptions

>95% reduction for 250 period, meet criterion C

Power de-rating: FSP040-RHAN3 100Vac or 240Vac, 0°C to 40°C,100% load,50°C,100%

load,60°C,80% load,70°C,70% load(Shall be less than the rating of adapter critical component, follow FSP specification

(adapter)) FSP042-RHAN3

100Vac or 240Vac, 0°C to 40°C,100% load,50°C,100% load,60 °C,100% load,70°C,80% load (Shall be less than the rating of adapter critical component, follow FSP specification (adapter)) 100Vac or 240Vac,0°C to 40°C,100% load,50°C,100% load,60°C,90% load,70°C,75% load (Shall be less than the rating of

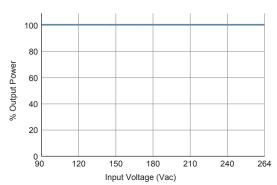
adapter critical component, follow FSP specification (adapter))



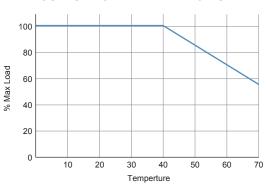
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INPUT VOLTAGE DERATING CURVE



OUTPUT POWER DERATING CURVE



OUTPUT VOLTAGE/CURRENT RATING CHART

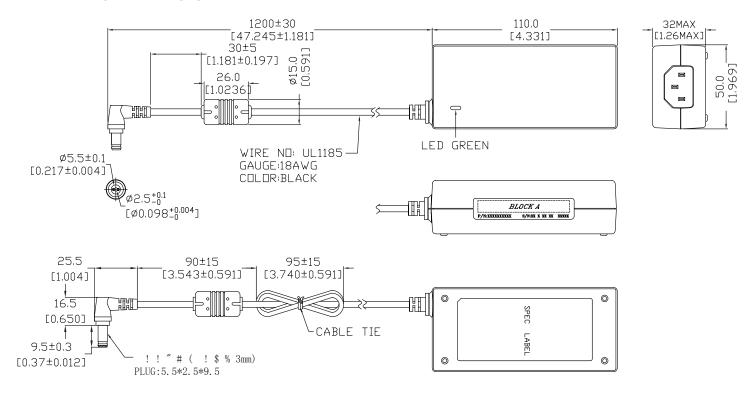
Model	Output Voltage	Output Current	AC Inlet	Efficiency	
				DOE(Level VI)	CoC V5 (Tier 2)
FSP040-RHAN3	12V	3.33A	C14	87.59%	88.59%
FSP042-RHAN3	12V	3.5A	C14	87.66%	88.71%
FSP048-RHAN3	12V	4A	C14	87.77%	88.97%



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MECHANICAL SPECIFICATIONS



CONNECTOR SPECIFICATIONS

