

#### TECHNICAL DATASHEET

# 50W / 60W 24V Adapter

FSP050(60)-DAAN3 Series



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# FSP050(60)-DAAN3 series

### **FEATURES**

- · Meet IEC 62368-1 & IEC 60950-1
- · Meet Energy Efficiency DOE Level VI
- Meet Code of Conduct Version 5 Tier 2
- High Reliability
- · EMC Standard: EN55032/ EN55024 Class B
- · Over Current Protection
- · Over Temperature Protection
- · Over Voltage Protection

### SAFETY STANDARD APPROVAL











#### **DESCRIPTION**

This product is an watts AC to DC adapter intended for use in This product is an 50~60 watts AC to DC adapter intended for use in IPC systems, embedded systems, IPC Systems, Embedded Systems, Printers, Monitors and POS Systems, etc. 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

100Vac, 240Vac / full load  $\leq 1.0$ A Input current: 115Vac , 230Vac ≦ 0.075W 264Vac / 50Hz ≦ 0.25mA No load power consumption Touch current:

#### **OUTPUT SPECIFICATIONS**

Output voltage/current: Total output power: Protection:

Over voltage:

See rating chart See rating chart

that means no output while over voltage happened at output terminal that caused by internal fault, the output trip voltage shall not exceed 38 vlots. That will be return to normal state by AC reset. Short circuit & When an internal fault occurs.or an

Over current: external fault is applied to the output, the power suppy shall shut down and

enter auto-recovery mode. The power supply will enter into shut Over temperature:

down while the abnormal thermal rise occurs. That will be return to normal

The adapter will enter into shut down

state by AC reset.

Brown-out Shutdown and no damage

Environment

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

-20~+80°C Storage TEMP

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

#### **INPUT SPECIFICATIONS**

Power factor:

Efficiency: See rating chart
Power turn-on time At 100Vac / full load, output voltage shall remain

regulation ≦ 3Sec At 100Vac or 240Vac / full load, output voltage shall Hold-up time:

remain regulation ≥ 10ms

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

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

5000 meters above sea level

Operating altitude:

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, MTBF: standard 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 Meet class A EN61000-3-3 Meet regulation

Air discharge: ±8 KV,contact discharge: ±4KV, meet EN61000-4-2

criterion A

EN61000-4-3 80 ~1000 MHz,3V/m,80% AM(1kHz), meet criterion A EN61000-4-4 Impulse: ±1kV applied to L,N,meet criterion A EN61000-4-5 ±1kV applied differential mode, ±2kV applied common

EN61000-4-6 mode, meet criterion A

EN61000-4-8 0.15 ~ 80 MHz,3Vrms,80% AM(1kHz),meet criterion A

EN61000-4-11 50 Hz or 60Hz,1A/m,meet criterion A

Voltage Dips :

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

Voltage Interruptions

Power de-rating:

>95% reduction for 250 period,meet criterion C 100Vac or 240Vac, 0°C to 40°C, 100% load, 50°C, 85% load, 60°C, 70% load, 70°C, 55% load (Shall be less than the rating of adapter critical component, follow FSP

specification (adapter))



## TECHNICAL DATASHEET

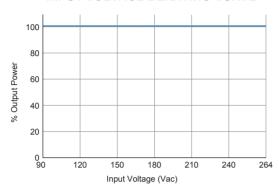
# 50W / 60W 24V Adapter

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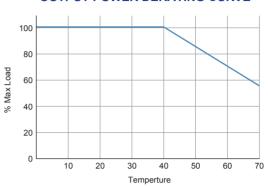


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# **INPUT VOLTAGE DERATING CURVE**



# **OUTPUT POWER DERATING CURVE**



## **OUTPUT VOLTAGE/CURRENT RATING CHART**

Model	Output Voltage	Output Current	AC Inlet	Efficiency	
				DOE(Level VI)	CoC V5 (Tier 2)
FSP050-DAAN3	24V	2.08A	C14	≧88%	≧89%
FSP060-DAAN3	24V	2.5A	C14	≧88%	≧89%



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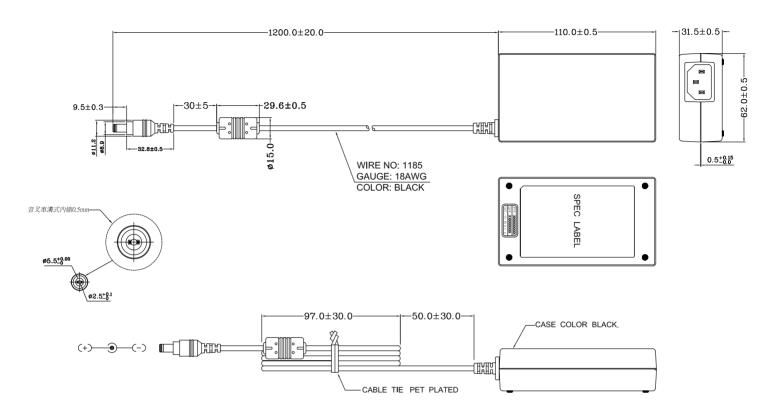
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# **MECHANICAL SPECIFICATIONS**



### **CONNECTOR SPECIFICATIONS**

