

65W ITE POWER SUPPLY

FSP065-P24 B Series



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FEATURES

- · Class-II design
- · IEC 62368-1 safety standard
- · Dimension 2" x 4" x 1.05"
- · Input power less than 0.5W at 0.2W load
- Surge, ±2 KV diff., ±4 KV com.
- · Class B emission for both Class-I and Class-II applications

SAFETY STANDARD APPROVAL





DESCRIPTION

This AC-DC switching power supply in a package of 2 x 4 inches is a Class-II safety construction and features 0.5W low input power consumption at 0.2W load which complies with DOE requirements. This PSU is capable of delivering 65 watts continuous power at convection cooling and 50°C operation temperature. Product is suitable for both Class-I (with Protected Earth) or Class-II application, such as information, audio & video and networking.

INPUT SPECIFICATIONS

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

1.5 A (rms) for 115 VAC Input current: 0.8 A (rms) for 230 VAC

Input power < 0.5w Load @ 0.2A

Touch leakage current 250 µA max. @ 264 VAC, 63 Hz

OUTPUT SPECIFICATIONS

Output voltage/current: See rating chart. Total output power: 65 watts maximum Ripple and noise: 1% peak to peak

Protection:

OVP: Auto recovery OCP & Shorted: Auto recovery OTP: Auto recovery

Temperature coefficient: All outputs ±0.04% /°C maximum Transient response: Maximum excursion of 4% or better on all

models, recovering to 1% of final value within 500 us after a 25% step load

change

ENVIRONMENTAL SPECIFICATIONS

Operating temperature: -20°C to +70°C -40°C to +85°C Storage temperature:

5% to 95% non-condensing Relative humidity:

Derate from 100% at +50°C linearly to Derating: 50% at +70°C, applicable to convection

and forced-air cooling conditions.

GENERAL SPECIFICATIONS

Efficiency: Refer to rating table Turn-On Delay Time ≤ 3 sec at 110VAC

10 ms minimum at 110 VAC Hold-up time: Line regulation: ±0.2% maximum at full load 30 A @ 115 VAC / 60 HZ Inrush current:

60 A @ 230 VAC / 50 HZ, at 25°C cold start

Withstand voltage: 3000 VAC from input to output

400,000 hours at full load at 25°C ambient temperature, MTBF:

calculated per TELCORDIA SR-332 **EMC** Performance

EN55032: Class B conducted, class B radiated Class B conducted, class B radiated FCC: VCCI: Class B conducted, class B radiated EN61000-3-2:

Harmonic distortion, class A

EN61000-3-3: Line flicker

EN61000-4-2: ESD, ±15 KV air and ±8 KV contact

EN61000-4-3: Radiated immunity, 3 V/m Fast transient/burst, ±1 KV EN61000-4-4: EN61000-4-5: Surge, ±2 KV diff., ±4 KV com. FN61000-4-61 Conducted immunity, 3 Vrms EN61000-4-8: Magnetic field immunity, 1 A/m EN61000-4-11: Voltage dips immunity,

> > 95% reduction for 10 ms, criteria B 30% reduction for 500 ms, criteria C

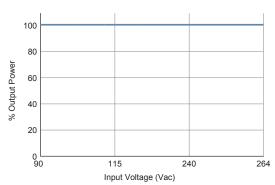
> 95% reduction for 5000 ms, criteria C



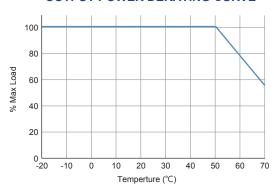
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INPUT VOLTAGE DERATING CURVE



OUTPUT POWER DERATING CURVE



OUTPUT VOLTAGE/CURRENT RATING CHART

Model	Output Voltage	Min. Load	Max. Current	Tolerance	Ripple & Noise (1)	Max. Power	Efficiency 115 / 230 Vac typical
FSP065-P24-B12	12 V	0 A	5.40 A	±3%	120 mV	65W	88 / 89%
FSP065-P24-B19	19 V	0 A	3.42 A	±3%	190 mV	65W	88 / 90%
FSP065-P24-B24	24 V	0 A	2.70 A	±3%	240 mV	65W	88 / 90%
FSP065-P24-B54	54 V	0 A	1.20 A	±3%	300 mV	65W	91 /92%

NOTES:

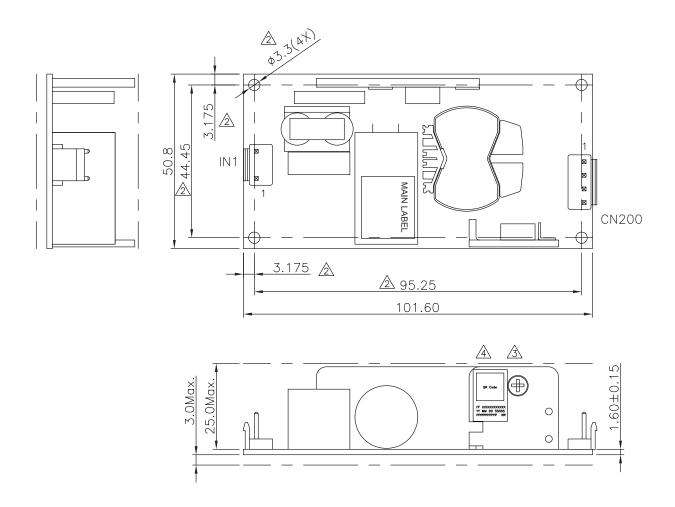
^{1.} Ripple and noise is maximum peak to peak voltage value measured at output within 20 MHz bandwidth, at rated line voltage and output load ranges, and with a 10 µF tantalum (or electrolytic) capacitor in parallel with a 0.1 µF ceramic capacitor across the output.



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MECHANICAL SPECIFICATIONS



Pin assignment: 1. IN1:

Pin No.	Function	Wafer	
1	N	JST B2P3-VH	
2		or	
3	L	Equivalent	

2. CN200:

Pin No.	Function	Wafer
1	+12V	
2	+12V	JST B4P-VH or
3	GND	Equivalent
4	GND	

NOTES:

Dimensions are shown in mm
Tolerance 0.5 mm maximum

Weight: 125 grams (0.275 lbs.) approx.