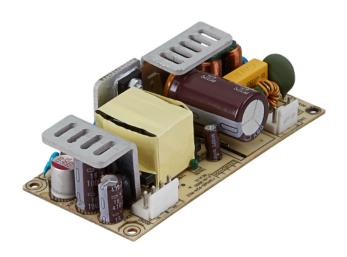


65W ITE POWER SUPPLY

FSP065-P24 A Series



FSP065-P24 A Series

FEATURES

- · Class-II design
- Design to meet IEC 60950-1, IEC 60065-1, and IEC 62368-1 safety standard
- · Compact dimension 2"x4"x1.047"
- · No load power consumption less than 0.21W
- · EN 55032 Class B radiated emission
- · Surge protection ±2 KV diff, ±4 KV com
- · High altitude 5000 meters operation
- · OTP, Brown out protection

SAFETY STANDARD APPROVAL





DESCRIPTION

This AC-DC switching power supplies in a package of 2 x 4 inches is a compact Class-II PSU and no load power consumption less than 0.21W. This PSU is capable of delivering 65 watts continuous power at convection cooling and 50°C operation temperature. Product is suitable for audio & video, display, information, and networking application.

INPUT SPECIFICATIONS

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

Input current: 1.7 A (rms) for 115 VAC 0.8 A (rms) for 230 VAC

No load power consumption ≦0.21A

250 uA max. @ 264 VAC, 63 Hz Touch current:

OUTPUT SPECIFICATIONS

Output voltage/current: See rating chart.

Total output power: 65W Ripple and noise: +1%

Protection:

Set at 110~130% of nominal output Over voltage:

voltage, auto recovery

Short circuit &Over current: Output protected to short circuit

condition, auto recovery

Over temperature: Detected by thermistor, auto recovery

Brown out: Set at 70VAC

Temperature coefficient: All outputs ±0.04% /°C maximum Maximum excursion of 5% or better on Transient response:

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

load change

ENVIRONMENTAL SPECIFICATIONS

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

Operating humidity: 5% to 95% non-condensing

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

cooling condition

GENERAL SPECIFICATIONS

Efficiency: See rating chart. Power turn on time 1.0 Sec maxi.

10 mS minimum @ 100% load & 115 VAC Hold-up time:

Line regulation: ±0.5% maximum at full load Inrush current: 55A @ 115VAC @ 25°C cold start 100A @ 230 VAC @ 25°C cold start

Operating altitude: 5000 meters above sea level 3000 VAC from input to output, Withstand voltage:

Isolation Resistance: Input to output 100M ohm @ 500Vdc, 25°C

MTBF. 400,000 hours minimum at full load at 25°C ambient,

calculated per BELL CORE SR-332 **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: Harmonic distortion, class A

EN61000-3-3: Line flicker

EN61000-4-2: ESD, ±8 KV air and ±4 KV contact EN61000-4-3: Radiated immunity. 3 V/m

EN61000-4-4: Fast transient/burst, ±1 KV EN61000-4-5: Surge, ±2 KV diff, ±4 KV com EN61000-4-6: Conducted immunity, 3 Vrms Magnetic field immunity, 3 A/m FN61000-4-81

EN61000-4-11: Voltage dip immunity,

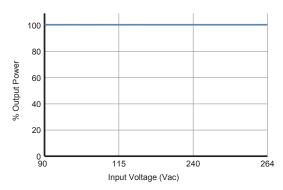
> 30% reduction for 500 ms, criteria A >95% reduction for 10 ms, criteria A >95% reduction for 5000 mS, criteria B



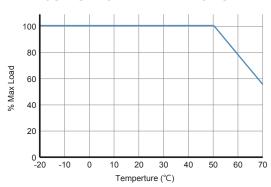
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INPUT VOLTAGE DERATING CURVE



OUTPUT POWER DERATING CURVE



OUTPUT VOLTAGE/CURRENT RATING CHART

Model	Output Voltage	Min. Load	Max. Current	Tolerance	Ripple & Noise	Max. Power	Efficiency 115 / 230 Vac
FSP065-P24-A12	12 V	0 A	5.40 A	±3%	120 mV	65W	88 / 89%
FSP065-P24-A19	19 V	0 A	3.42 A	±3%	190 mV	65W	89 / 90%
FSP065-P24-A24	24 V	0 A	2.70 A	±3%	240 mV	65W	90 / 90%
FSP065-P24-A54	54 V	0 A	1.20 A	±3%	300 mV	65W	91 / 92%

NOTES:

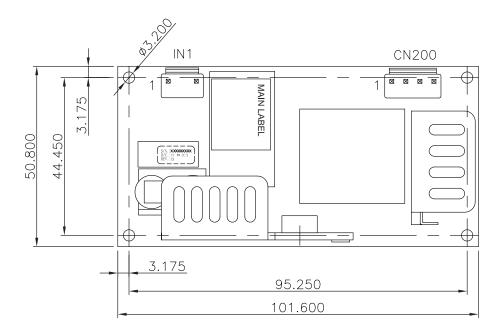
^{1.} Ripple and noise is maximum peak to peak voltage value measured at output within 20 MHz bandwidth, at rated line voltage and output load ranges, and with a 10 µF tantalum capacitor in parallel with a 0.1 µF ceramic capacitor across the output.

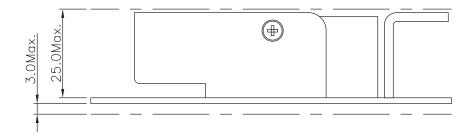


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MECHANICAL SPECIFICATIONS





Pin assignment: 1. IN1: JST B2P3-VH or EQU

Pin No.	Function		
1	Neutral		
2	NC		
3	Line		

2. CN200: JST B4P-VH or EQU

Pin No.	Function	
1, 2	V+	
3, 4	RTN	

3. Dimension (L*W*H): 101.6 * 50.8 * 26.6 mm 4" * 2" * 1.047"

4. Weight: 125 grams. (0.275 lbs.) approx.