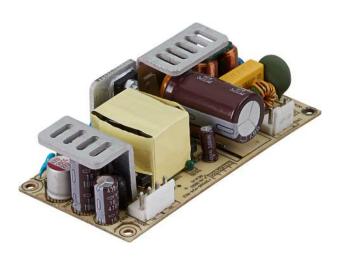


TECHNICAL DATASHEET 65W ITE POWER SUPPLY FSP065-P24 A Series



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

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

OUTPUT SPECIFICATIONS

See rating chart. Output voltage/current: 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

Operating temperature: Storage temperature: Operating humidity: Derating: -20°C~+70°C -40°C~+85°C 5% to 95% non-condensing Derate from 100% at +50°C linearly to 50% at +70°C, applicable to convection cooling condition

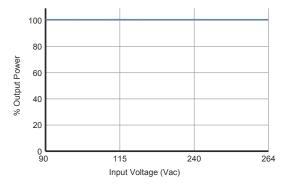
GENERAL SPECIFICATIONS

Efficiency:	See rating chart.
Power turn on time	1.0 Sec maxi.
Hold-up time:	10 mS minimum @ 100% load & 115 VAC
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
Withstand voltage:	3000 VAC from input to output,
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
EN61000-4-8:	Magnetic field immunity, 3 A/m
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

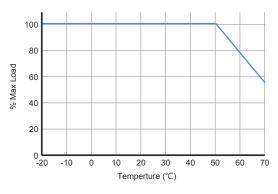


TECHNICAL DATASHEET 65W ITE POWER SUPPLY FSP065-P24 A Series

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%

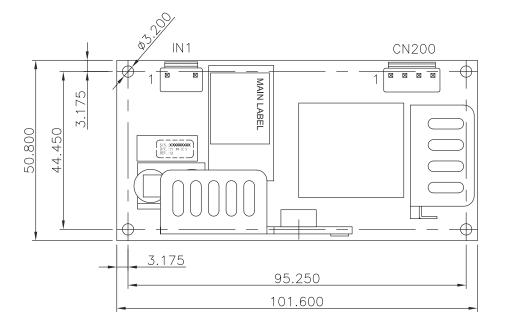
NOTES:

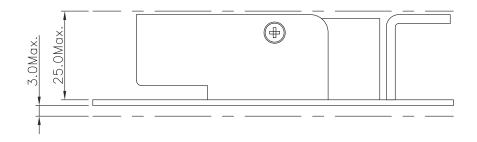
1. Ripple and noise is maximum peak to peak voltage value measured at output within 20 MHz bandwidth, at rated line voltage and output load ranges, and with a 10 μ F tantalum capacitor in parallel with a 0.1 μ F ceramic capacitor across the output.



TECHNICAL DATASHEET 65W ITE POWER SUPPLY FSP065-P24 A Series

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.