

TECHNICAL DATASHEET

## **260W ITE Power Supplies**

FSP260-P35 A Series



## FSP260-P35 A Series

### **FEATURES**

- · Class-I design
- · IEC 62368-1 safety standard
- · Form factor 3" x 5" x 1.34"
- · Input power less than 0.5W at 0.2W load
- · EN 55032 radiated emission
- · Remote ON/OFF input
- · High altitude 5000 meters operation
- · Long hold up time

### SAFETY STANDARD APPROVAL



### **DESCRIPTION**

This AC-DC switching power supplies in a package of 3 x 5 inches is a Class-I (with Protection Earth) safety construction and feature with 0.5W low input power consumption at 0.2W load which is comply with Energy Star requirement. Less audible noise is suitable for quiet design requirement. This PSU is capable of delivering 260 watts continuous power at 18.4 CFM forced air cooling or 150 watts continuous power at convection cooling and 50°C operation temperature. Product is suitable for information, audio & video and networking applications.

### **INPUT SPECIFICATIONS**

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

Input current: 3 A (rms) for 115 VAC 1.5 A (rms) for 230 VAC

1.5 mA maxi. @ 264VAC, 63Hz Earth leakage current: 250 uA maxi. @ 264VAC, 63Hz Touch current:

Remote ON/OFF TTL Low level to turn on PSU

### **OUTPUT SPECIFICATIONS**

Output voltage/current: See rating chart. Total output power: 260 watts maximum Ripple and noise: 1% peak to peak maximum

Protection:

OVP Latch off OCP & Shorted Auto recovery OTP Latch off

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:

2021.05 spec

Relative humidity: 5% to 95% non-condensing

Derating: Derate from 100% at +50°C linearly to

50% at +70°C, applicable to convection and forced-air cooling conditions.

### **GENERAL SPECIFICATIONS**

Power factor: 0.99 mini. @ 115VAC & 100% load

0.94 mini. @ 230VAC & 100% load

Efficiency: Refer to rating table Turn-On Delay Time: ≤ 1 sec at 115 VAC

25 mS mini. @ 115VAC & 260W load Hold-up time:

50 mS mini. @ 115VAC & 150W load

Line regulation: ±0.2% maximum at full load

Inrush current: 60A @ 115VAC, 25°C& cold start 120A @ 230VAC, 25°C& cold start

Withstand voltage: 3000 VAC from input to output

1500 VAC from input to ground, 1500 VAC from output to ground

Isolation resistance: Input to output 100M ohm @ 500Vdc

MTBF: 800,000 hours mini. at full load at 25°C ambient temperature, calculated per Telcordia SR-332

**EMC Performance** 

EN 55032: 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 and D

EN61000-3-3: Line flicker

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

EN61000-4-3: Radiated immunity, 3 V/m Fast transient/burst, ±1 KV EN61000-4-4: Surge, ±2 KV diff., ±4 KV com. EN61000-4-5: EN61000-4-6: Conducted immunity, 3 V/m EN61000-4-8: Magnetic field immunity, 1 A/m

Voltage dip immunity & voltage interruptions EN61000-4-11:

> 30% reduction for 500 ms >95% reduction for 10 mS 100% reduction for 5000 ms



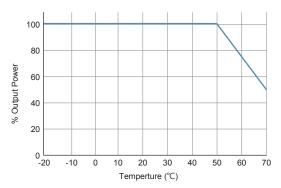
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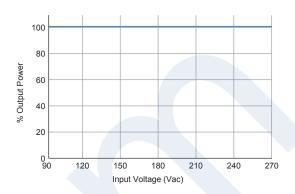


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### **OUTPUT POWER DERATING CURVE**





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

Model		Efficiency							
	V1	Min. Current	Max. Cu	Tol.	Ripple &	Max. Po	ower <sup>(1)</sup>	(typical)	
			Convection	Forced air	101.	Noise (2)	Convection	Forced air	@ 115 / 230 VAC
FSP260-P35-A12	12 V	0 A	12.50A	21.60A	±3 %	120 mV	150W	260W	90 / 92%
FSP260-P35-A18	18 V	0 A	8.33A	14.45A	±3 %	180 mV	150W	260W	91 / 92%
FSP260-P35-A24	24 V	0 A	6.25A	10.80A	±3 %	240 mV	150W	260W	91 / 92%
FSP260-P35-A54	54 V	0 A	2.78A	4.82A	±3 %	540 mV	150W	260W	92 / 94%

### NOTES

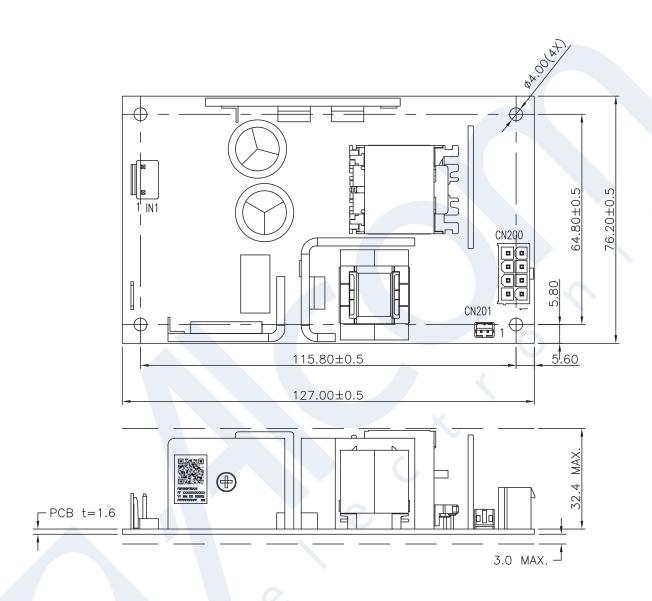
- 1. Forced air 18.4 CFM to be provide by user.
- 2. Ripple and noise is maximum peak to peak voltage value measured at output within 20 MHz bandwidth, at rated line voltage and output load ranges, and with a 10 µF tantalum (or electrolytic) capacitor in parallel with a 0.1 µF ceramic capacitor across the output.
- 3. FSP260-P35-A18 safety certificate is not available yet. Please contact with sales office before design in.



# **260W ITE Power Supplies**

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### **MECHANICAL SPECIFICATIONS**



### CONNECTOR PIN CHART

CONNECTOR		IN1				CN200								CN201	
PIN NO.	1	1	2	3		1	2	3	4	5	6	7	8	1	2
OUTPUT	Line	N.	.C.	Neutra	ıl		+\/	out		Return				PS_OFF+	PS_OFF -

### NOTES:

- 1. Dimensions shown in mm
- 2. Connector IN1: JST B2P3-VH or equivalent.
  3. Connector CN200: Molex 460271208 or equivalent.
- 4. Connector CN201: JST B2B-PH 5. Ground tab: 8 x 6.35 x 0.8 mm

Weight: 280 grams (0.617 lbs.) approx.