

- Class-I 260W @ Forced air, 150W @ Convection cooling
- Single output voltage: 12V, 18V, 24V, 54V
- Low profile: 3" x 5" x 1.34"
- Input power consumption < 0.5W @ 0.2W max load
- Surge protection ±2 KV diff., ±4 KV com
- 1.5KVac withstand between output and FG
- High altitude 5000 meters operation
- Remote on/off control
- OTP, Brown-in/out protection
- Operation temperature -20°C~50°C
- Safety certificate: CB 62368, UL, CE

Application:

- Networking Switch
- PoE Switch
- Docking

Product Pofolio:

Family name	Output Watts		Form		s	ingle	Outpu	PFC	Safety Certificate			
167.	Convection	Forced Air	Factor	5V	12V	187	197	24V	54V		161.	
FSP065-P35 A	65W		3" x 5" x 1.105"	•				•		no	cCSAus, CE	
FSP150-P35 A	100W	150W	3" x 5" x 1.09"		•					with	UL, CE	
FSP200-P35 A	150W	200W	3" x 5" x 1.17"							with	cCSAus, CE	
FSP260-P35 A	150W	260W	3" x 5" x 1.34"			0		•	•	with	UL, CE	
FSP350-F35 A	200W*	350W	3" x 5" x 1.34"		•				•	with	cCSAus, CE	

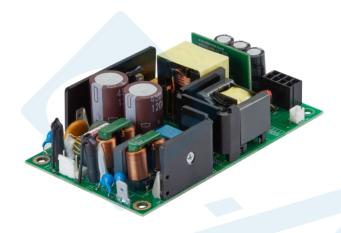
Mass Production





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

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

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

 $\label{eq:local_transformation} Temperature \ coefficient: \qquad \text{All outputs $\pm 0.04\%$ /$^{\circ}$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 $+70^{\circ}\text{C}$ Storage temperature: -40°C to $+85^{\circ}\text{C}$

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

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

50 mS mini. @ 115VAC & 150W load

Line regulation: ±0.2% maximum at full load lnrush current: ±0.4% maximum at full load 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
EN61000-4-4: Fast transient/burst, ±1 KV
EN61000-4-5: Surge, ±2 KV diff., ±4 KV com.
EN61000-4-6: Conducted immunity, 3 V/m
EN61000-4-8: Magnetic field immunity, 1 A/m

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

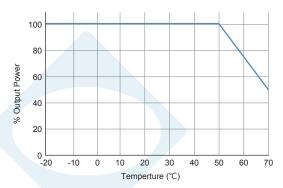
30% reduction for 500 ms >95% reduction for 10 mS 100% reduction for 5000 ms

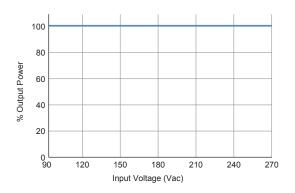


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FSP260-P35 A Series

OUTPUT POWER DERATING CURVE





OUTPUT VOLTAGE/CURRENT RATING CHART

		Efficiency							
Model	V1	Min. Current	Max. Cu	Tol.	Ripple &	Max. Po	ower (1)	(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:

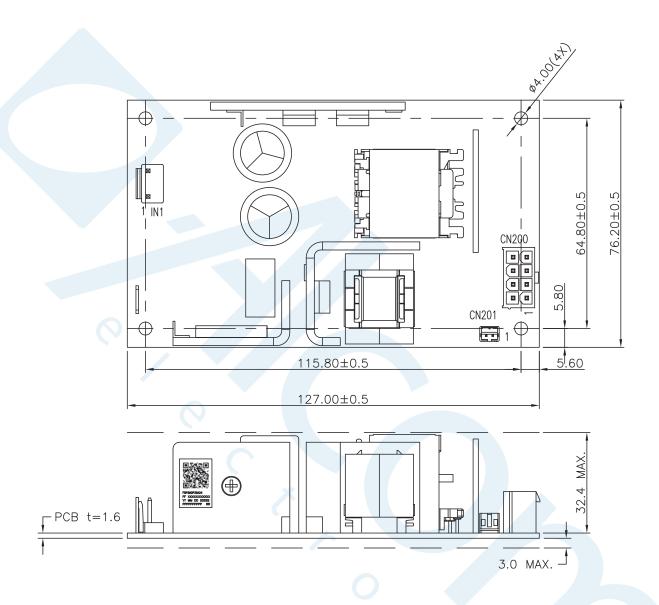
- 1. Forced air 18.4 CFM to be provide by user.
- 2. Ripple and noise is maximum peak to peak voltage value measured at output within 20 MHz bandwidth, at rated line voltage and output load ranges, and with a 10 µF tantalum (or electrolytic) capacitor in parallel with a 0.1 µF ceramic capacitor across the output.
- 3. Please contact with sales representative for safety application schedule



260W ITE Power Supplies

FSP260-P35 A Series

MECHANICAL SPECIFICATIONS



CONNECTOR PIN CHART

CON	NNECTOR	IN1			CN200								CN201	
F	PIN NO.	1	2	3	1	2	3	4	5	6	7	8	1	2
О	DUTPUT	Line	N.C.	Neutral	+Vout					Ref	urn	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.