

262W PoE Power Supplies

FSP262-2H35-A54H



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FEATURES

- Class-I design
- IEC 62368-1 safety compliance
- EN55032 class B conducted emission
- Isolated between 12V and 54V
- Isolated between Protected Earth and Return
- Form factor 3" x 5"

SAFETY STANDARD APPROVAL



DESCRIPTION

This AC-DC switching power supplies in a package of 127 x 76.2 x 31.6 mm (above PCB) is a Class-I (with Protection Earth) safety construction and isolated dual outputs 54V & 12V PSU that suitable for PoE Switch and Networking application. This PSU is capable of delivering 262 watts continuous power at 7 CFM forced air cooling and 50°C operation temperature.

INPUT SPECIFICATIONS

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

Input current: ≤ 4.2 A (rms) for 115 VAC

≤ 2.1 A (rms) for 230 VAC

≤ 3 mA @ 264VAC, 63Hz Earth leakage current:

Touch current: ≤ 250 µA @ 264VAC, 63Hz

OUTPUT SPECIFICATIONS

Output voltage/current: See rating chart. Total output power: 262 watts maximum Ripple and noise: 1% peak to peak maximum

Protection:

OVP Latch off 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

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

Relative humidity: 5% to 95% non-condensing Derate from 100% at +50°C linearly to Derating:

50% at +70°C, forced-air cooling

conditions.

GENERAL SPECIFICATIONS

T6.3AL, 250Vac Fuse protection

Power factor: 0.95 mini. @ 115VAC & 100% load

0.98 mini. @ 230VAC & 100% load

Refer to rating table Efficiency:

Turn-On Delay Time: ≤ 1.5 sec

Hold-up time: 12 mS mini. @ 115VAC & 230VAC, 100% load

Line regulation: ±0.2% maximum at full load

No damage to PSU @ 115VAC & 230VAC, 25°C & cold start Inrush current:

3000 VAC from input to output Withstand voltage:

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

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

350,000 hours mini. at full load, 25°C ambient temperature, MTBF:

calculated per Telcordia SR-332

EMC Performance

EN 55032: Class B conducted,

FN61000-3-2 Harmonic distortion, Class D

EN61000-3-3: Line flicker

EN61000-4-2: ESD. ±8 KV air and ±6 KV contact EN61000-4-3: Radiated immunity, 3 V/m FN61000-4-4: Fast transient/burst, ±1 KV Surge, ±2 KV diff., ±4 KV com. EN61000-4-5:

Conducted immunity, 3 Vrms Magnetic EN61000-4-6:

Field immunity, 1 A/m EN61000-4-8:

Voltage dip immunity @ 230Vac, 50Hz EN61000-4-11:

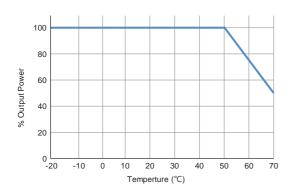
> 100% reduction for 10 ms, criteria A 30% reduction for 500 ms, criteria B 100% reduction for 5000 ms, criteria B

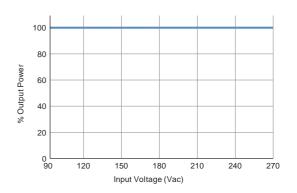


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OUTPUT POWER DERATING CURVE





OUTPUT VOLTAGE/CURRENT RATING CHART

Model		Efficiency					
	Voltage	Min. Load	Max. Load (1)	Tolerance	Ripple & Noise (2)	Power (1)	(typical) @ 115 / 230 VAC
FSP262-2H35-A54H	54 V	0 A	4.07 A	±3 %	400 mV	162 W	90 / 93%
	12 V	0 A	8.34 A	±3 %	250 mV	100 W	

NOTES:

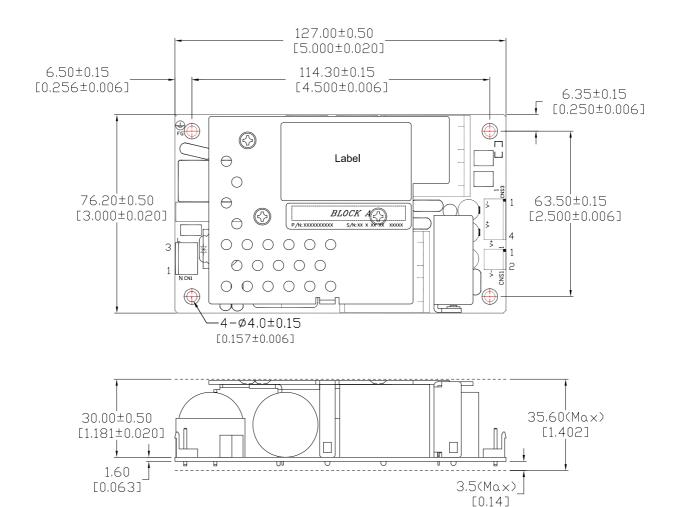
- 1. Forced air 7 CFM to be provide by user.
- 2. Ripple and noise is maximum peak to peak voltage value measured at output within 20 MHz bandwidth, at rated line voltage and output load ranges, and with a 10 µFtantalum (or electrolytic) capacitor in parallel with a 0.1 µFceramic capacitor across the output.



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MECHANICAL SPECIFICATIONS



CONNECTOR PIN CHART

CONNECTOR	CN1			CNS1		CNS3	
PIN NO.	1	2	3	1	2	1, 2	3, 4
OUTPUT	Neutral		Line	+54V	+54V_Return	+12V_Return	+12V

- 1. Dimensions shown in mm
- 2. Connector CN1: JWT A3963WV2-3P-D or equivalent.
- 3. Connector CNS1: JWT A3963WV2-2P or equivalent.
- 4. Connector CNS3: JWT A3963WV2-4Por equivalent.
- 5. To ensure compliance with level B emissions, connect the four PCB mounting holes with metallic standoffs to the chassis.

Weight: 378 grams (0.833 lbs.) approx.