

UNIVERSAL INPUT

FEATURES

- Wide range input 90 to 260VAC
- Standby consumption < 1W
- Low safety ground leakage current
- Low ripple and noise
- Fast transient response
- Overcurrent, Short-circuit, Overvoltage, and Thermal protections
- 100% burn-in at full rated load
- Meets EN55022, FCC Class B, VCC, EN61000 Class A,D
- Compliant with RoHS requirements

DESCRIPTION

This series of switching power supplies are specially designed for portable applications. They are capable of delivering up to 150 watts of continuous DC output power. Construction is a 94V-1 rated polyphenylene-oxide case with an IEC 320/C14 inlet to mate with interchangeable cord for world-wide use. All models meet CISPR 22 and FCC class B emission limits and comply with UL, CSA, IEC and CE requirements.

INPUT SPECIFICATIONS

90 to 260 VAC Input Voltage Input Frequency 47 to 63 Hz 2A rms @ 115VAC Input Current

1A rms @ 230VAC

Inrush Current No damage @ 115VAC or 230VAC

(at 25°C cold start)

Leakage Current 150µA max @ 115VAC 60Hz (Touch current) 250µA max @ 230VAC 50Hz

ENVIRONMENTAL

0 °C to +40 °C. Operating Temperature -20 °C to +80 °C Storage Temperature

Operating Humidity 10% to 95% RH, non-condensing

FSP150 SERIES 150 WATT SWITCHING POWER SUPPLIES

GENERAL SPECIFICATIONS

94V-1 rated polyphenylene-oxide case Construction Connectors / Terminals IEC 320/C14 inlet. Options for DC Out. 88% min, at 110 VAC or 240 VAC Efficiency

Turn on delay time 5 Sec max Power Factor 0.95 typical

Dielectric Isolation 3000VAC from input to output 1500VAC from input to ground

MTRF 100,000 hours minimum at full load

(per MIL-HDBK-217F) at 25 °C ambient

OUTPUT SPECIFICATIONS

Refer to Rating Chart for each model Total Output Power Output Voltage / Current, Refer to Rating Chart for each model

Adjustability, Peak Current

Minimum Load No minimum load required Hold Up Time 3 mSec min @ 100 VAC $\pm 0.5\%$ max at full load Line Regulation Ripple and Noise 350mV peak to peak max

Overvoltage Protection Setting at 110-140% of Vnom output

voltage

Overcurrent / Short Circuit

Protection

Continuous protection with automatic

recovery

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.

EMC and SAFETY (1)

EMC Performance Standard EN60601-1-2: 2001 EN61000-3-2, -3-3, -4-2, -4-3, -4-4, -4-5, -4-6, -4-8, -4-11

EN55022, FCC-15, VCCI Class-B Conducted, Radiated

Safety Standards UL60950-1 3rd, CSA C22.2 No 60950-1

(certified to) 3rd, EN60950: 2000 (Nemko)

(1) Products are rated for commercial environments and are not to be used nor are warranted in aerospace or life-support medical applications.





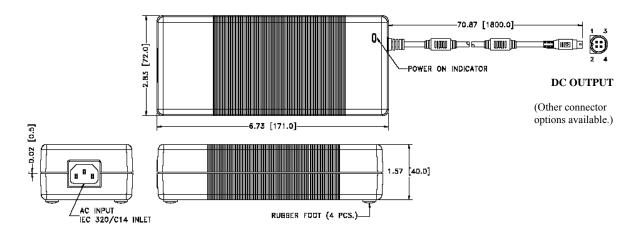
OUTPUT VOLTAGE / CURRENT RATINGS

MODEL	Vnom.	Imax.	Imin.	Tol.	Max Output Power
FSP150-AHA	12V	12.5A	0A	5%	150W
FSP150-AGA	15V	10.0A	0A	5%	150W
FSP150-AAA	19V	7.89A	0A	5%	150W
FSP150-ACA	20V	7.50A	0A	5%	150W
FSP150-ABA	24V	6.25A	0A	5%	150W

NOTE:

Ripple and noise: Measured peak-t o-peak with 20MHz bandwidth and 10uF tantalum capacitor in parallel with a $0.1 \mu F$ ceramic capacitor at rated line voltage and load ranges.

MECHANICAL SPECIFICATIONS (mm/inches)



NOTES

- 1. Dimensions shown in inch [mm]
- 2. Tolerance 0.02 [0.5] maximum
- 3. Weight: 1.76 lb, 800 grams approx.
- DC output connector options are available. Contact Sales for details.
- 5. The length of output cable for 12V model is 37.4 (950.0)

PIN ASSIGNMENTS

MODEL	1	2	3	4	SHELL OF CONNECTOR
All Models FSP150-xxx	Output (+V)	Output (+V)	Return	Return	Return