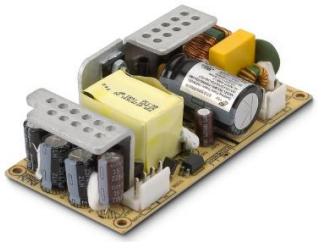
DESCRIPTION

This AC-DC switching power supplies in a package of 2 x 4 inches is a compact Class-II PSU that suitable for Telecomm and general application. This PSU is capable of delivering 65 watts continuous power at convection cooling.

FSP065-P24 Series

RoHS



FEATURES

- Class-II design
- Compact dimension 2”x4”x1.17”
- EN 55032 Class B radiated emission
- Surge protection ±2 KV diff, ±4 KV com
- High altitude 5000 meters operation
- OVP, OPP, OTP protection

SAFETY STANDARD APPROVAL

UL 60950-1, CSA 22.2 No.60950-1

TUV EN 60950-1

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	≦0.3A
Earth leakage current:	1.5 mA max. @ 264 VAC, 63 Hz

OUTPUT SPECIFICATIONS

Output voltage/current:	See rating chart.
Total output power:	65W
Ripple and noise:	±1%.
Protection:	
OVP	Latch off
OPP	Latch off
Shorted	Auto recovery
OTP	Latch off
Temperature coefficient:	All outputs ±0.04% /℃ maximum
Transient response:	Maximum excursion of 5% or better on all models, recovering to 1% of final value within 500 us after a 25% step load change

ENVIRONMENTAL SPECIFICATIONS

Operating temperature:	0℃ to +70℃
Storage temperature:	-40℃ to +85℃
Relative humidity:	5% to 95% non-condensing
Derating:	Derate from 100% at +50℃ linearly to 50% at +70℃, applicable to convection and forced-air cooling conditions

GENERAL SPECIFICATIONS

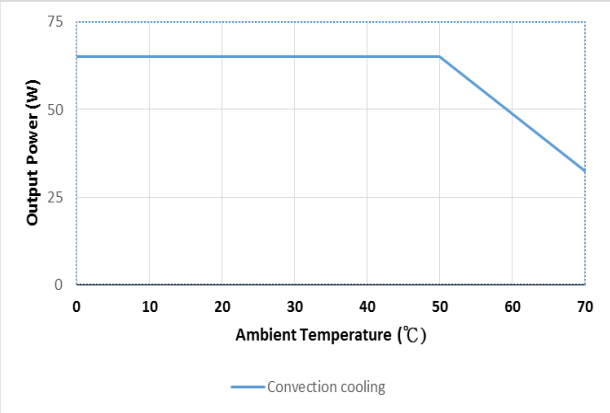
Efficiency:	87% @ 115Vac, 89% @ 230Vac typical
Hold-up time:	10 mS minimum @ 100% load & 115 VAC
Line regulation:	±0.5% maximum at full load
Inrush current:	55A @ 115VAC @ 25℃ cold start 100A @ 230 VAC @ 25℃ cold start
Withstand voltage:	3000 VAC from input to output,
MTBF:	400,000 hours minimum at full load at 25℃ ambient, calculated per MIL-HDBK-217F
EMC Performance	
EN55032 / EN55022	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, ±15 KV air and ±8 KV contact
EN61000-4-3:	Radiated immunity, 3 V/m
EN61000-4-4:	Fast transient/burst, ±2 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

OUTPUT VOLTAGE / CURRENT RATING CHART

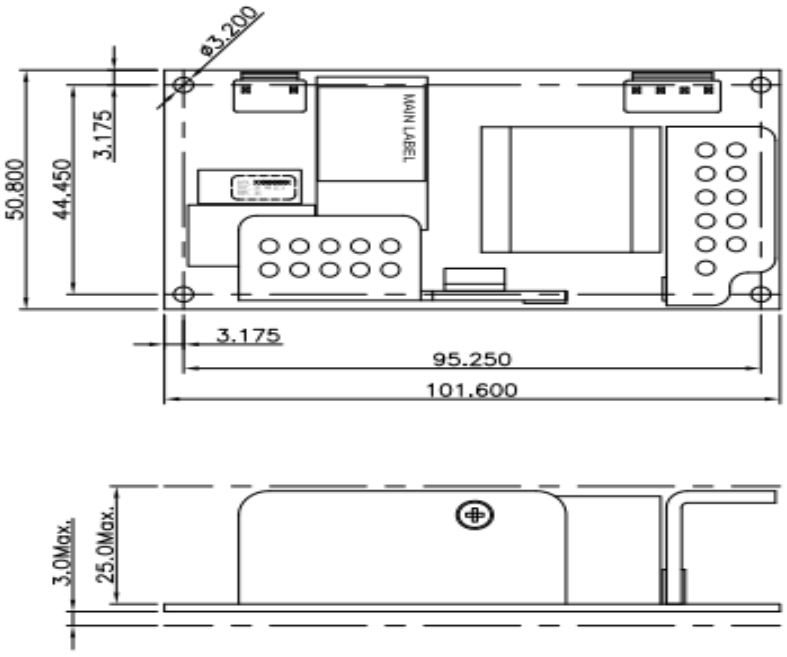
Model	Output Voltage	Min. Load	Max. Current	Tolerance	Ripple & Noise(1)	Max. Power	Efficiency 115 / 230 Vac
FSP065-P24-12N	12 V	0 A	5.4 A	±3%	120 mV	65W	86 / 87%
FSP065-P24-24N	24 V	0 A	2.7 A	±3%	240 mV	65W	87 / 89%
FSP065-P24-48N	48 V	0 A	1.35 A	±3%	480 mV	65W	87 / 89%
FSP065-P24-54N	54 V	0 A	1.2 A	±3%	540 mV	65W	87 / 89%

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 μF tantalum capacitor in parallel with a 0.1 μF ceramic capacitor across the output.

OUTPUT DERATING CURVE



MECHANICAL SPECIFICATIONS



Note:

1. Input: JST B2P3-VH(LF)(SN) or EQU

Pin 1	Neutral
Pin 2	Line

2. Output: JST B4P-VH(LF)(SN) or EQU

Pin 1, 2	+12V
Pin 3, 4	+12V RTN

3. Dimension (L*W*H):
   101.6 * 50.8 * 29.6 mm
   4” * 2” * 1.17”

4. Weight:
   134 grams. (0.295 lbs.) approx.