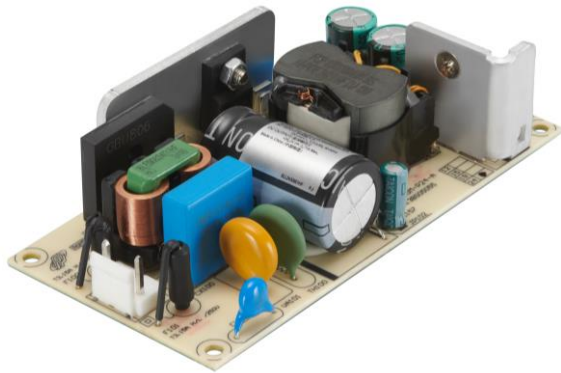




FSP065M-P24 Series

FEATURES

- Class-II design
- IEC60601-1 & IEC 62368-1 compliance
- EN55011 class B compliance
- Standby power less than 0.5W
- Form factor 2" x 4"

SAFETY STANDARD APPROVAL



DESCRIPTION

The AC-DC switching power supplies in a package of 2 x 4 inches are Class-II safety construction and feature 0.5W low input power consumption at 0.2W, which complies with Energy Star requirement. Less audible noise is suitable for quiet design requirement. PSU is capable of delivering 65 watts continuous power under convection cooling and at 50°C operation temperature.

INPUT SPECIFICATIONS

Input voltage:	90 to 264 VAC
Input frequency:	47-63 Hz
Input current:	1.5 A Max for 115 / 230 VAC
Touch current:	≤ 100 µA @ 264VAC, 63Hz

OUTPUT SPECIFICATIONS

Output voltage/current:	See rating chart.
Total output power:	65 watts maximum
Ripple and noise:	1% peak to peak maximum
Protection:	
OVP	Auto recovery
OCP & Shorted	Auto recovery
OTP	Auto recovery

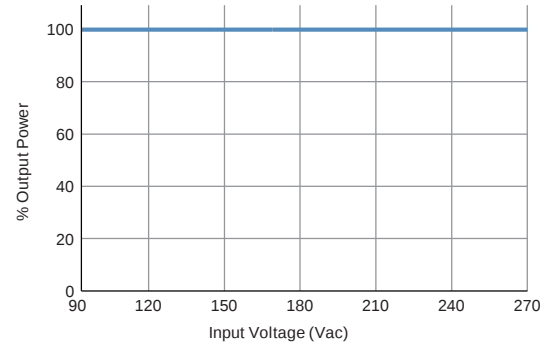
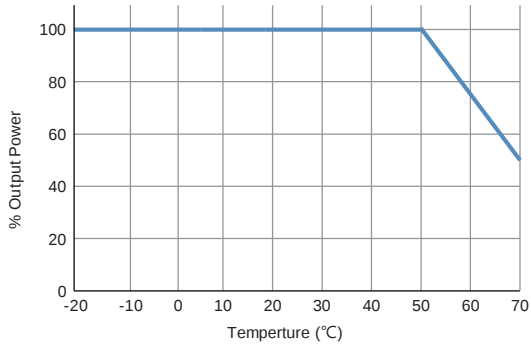
ENVIRONMENTAL SPECIFICATIONS

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

Fuse protection	T3.15AH, 250Vac @ Line & Neutral
Efficiency:	Refer to rating table
Turn-On Delay Time:	≤ 3 sec
Hold-up time:	≥10 mS mini. @ 115VAC
Line regulation:	±0.2% maximum at full load
Inrush current:	≤ 30A @ 115VAC, 25°C& cold start ≤ 60A @ 230VAC, 25°C& cold start
Withstand voltage:	4000 VAC from input to output (2 MOPP) 1500 VAC from input to ground (1 MOPP) 1500 VAC from output to ground (1 MOPP)
Isolation resistance:	Input to output 100M ohm @ 500Vdc
MTBF:	369,611 hours mini. at full load at 25°C ambient temperature, calculated per Telcordia SR-332
EMC Performance (IEC60601-1-2)	
EN 55011:	Class B conducted, class B radiated
EN61000-3-2:	Harmonic distortion, Class D
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, ±1 KV diff., ±2 KV com.
EN61000-4-6:	Conducted immunity, 3 Vrms
EN61000-4-8:	Magnetic field immunity, 30 A/m
EN61000-4-11:	Voltage dip immunity, 30% reduction for 500 ms 60% reduction for 100 ms >95% reduction for 10 ms

OUTPUT POWER DERATING CURVE



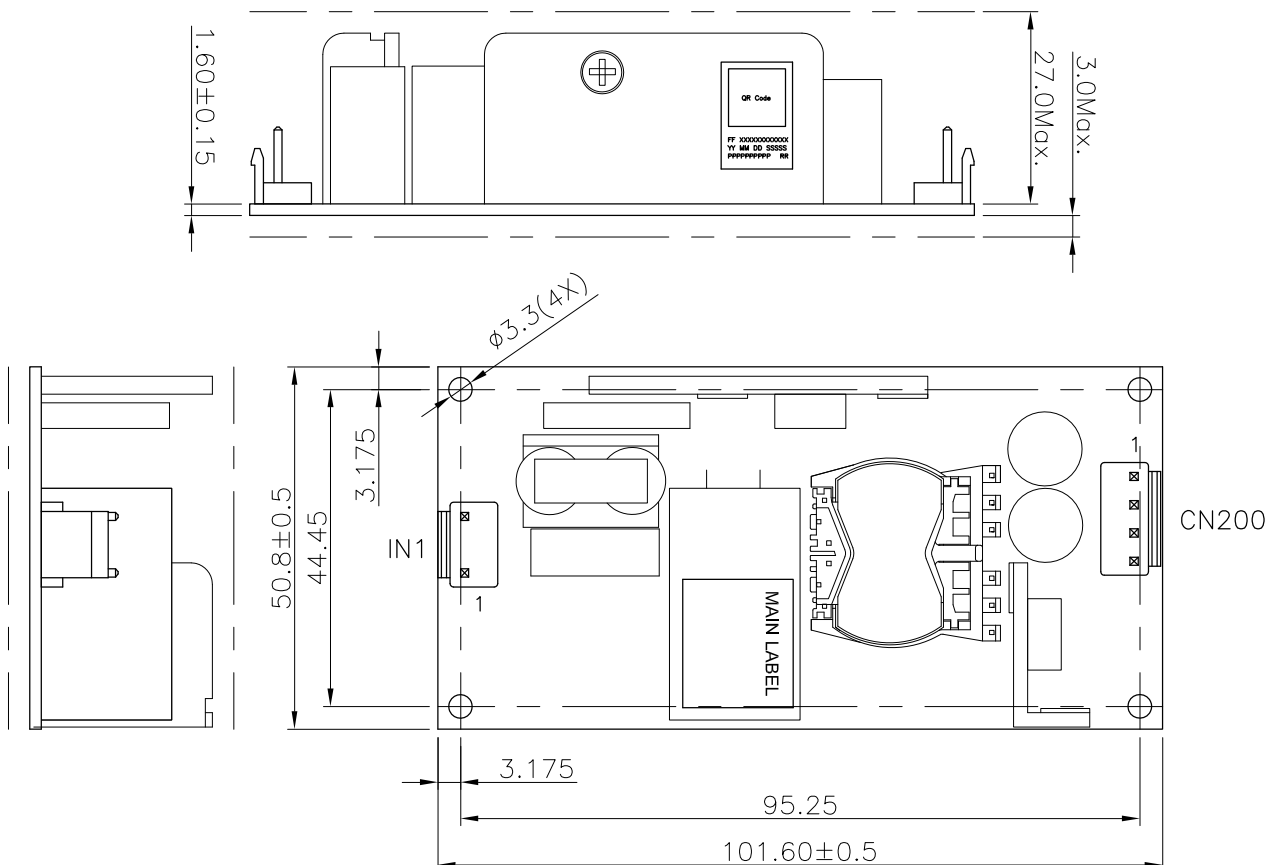
OUTPUT VOLTAGE/CURRENT RATING CHART

Model	Output						Efficiency (typical) @ 115 / 230 VAC
	V1	Min. Current	Max. Current	Tol.	Ripple & Noise ⁽²⁾	Max. Power	
			Convection			Convection	
FSP065M-P24-A12	12 V	0 A	5.42A	±3 %	120 mV	65W	87 / 89%
FSP065M-P24-A15	15 V	0 A	4.34A	±3 %	150 mV	65W	87 / 89%
FSP065M-P24-A19	19 V	0 A	3.43A	±3 %	190 mV	65W	87 / 89%
FSP065M-P24-A24	24 V	0 A	2.71A	±3 %	240 mV	65W	87 / 89%

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 μ Ftantalum (or electrolytic) capacitor in parallel with a 0.1 μ Fceramic capacitor across the output.

MECHANICAL SPECIFICATIONS



CONNECTOR PIN CHART

CONNECTOR	IN1			CN200			
PIN NO.	1	2	3	1	2	3	4
OUTPUT	Neutral		Line	+V	+V	GND	GND

NOTES:

1. Dimensions shown in mm
2. Connector IN1: JST B2P3-VH or equivalent.
3. Connector CN200: JST B4P-VH or equivalent..
4. Weight: 104.5 grams (0.23 lbs.) approx.