

DESCRIPTION

FEATURES

- Class-II design
- Design to meet IEC 60950-1, IEC 60065-1, IEC 62368-1 and EN 61558-1 safety standard
- Compact dimension 2"x4"x1.047
- No load power consumption less than 0.21W
- EN 55032 Class B radiated emission
- Surge protection ±2 KV diff, ±4 KV com
- High altitude 5000 meters operation
- OTP, Brown out protection

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 ≤0.21A

Touch current: 250 uA max. @ 264 VAC, 63 Hz

OUTPUT SPECIFICATIONS

Output voltage/current: See rating chart.

Total output power: 65W Ripple and noise: ±1%.

Protection:

Over voltage Set at 110~130% of nominal output

voltage, auto recovery

Short circuit & overcurrent Output protected to short circuit

condition, auto recovery

Over temperature Detected by thermistor, auto recovery

Brown out Set at 65VAC

Temperature coefficient:

Transient response:

All outputs ±0.04% / C maximum

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: -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

cooling condition

FSP065-P24 A Series



RoHS

SAFETY STANDARD APPROVAL

CB

IEC 62368-1



UL 62368-1, CAN/CSA 22.2 No.62368-1-14

GENERAL SPECIFICATIONS

Efficiency: See rating chart.

Power turn on time 1.0 Sec maxi.

Hold-up time: 10 mS minimum @ 100% load & 115 VAC Line regulation: ±0.5% maximum at full load

Inrush current: 55A @ 115VAC @ 25°C cold start 100A @ 230 VAC @ 25°C cold start

Operating altitude: 5000 meters above sea level Withstand voltage: 3000 VAC from input to output,

Withstand voltage: 3000 VAC from input to output, Isolation Resistance: Input to output 100M ohm @ 500Vdc, 25°C

400,000 hours minimum at full load at 25 $^{\circ}\mathrm{C}$ ambient, calculated per BELL CORE SR-332

EMC Performance

MTRF.

EN55032 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, ±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/ms
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

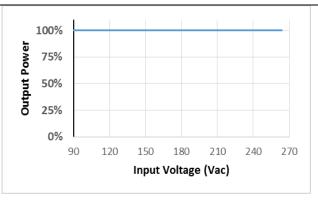
OUTPUT VOLTAGE / CURRENT RATING CHART

Model	Output Voltage	Min. Load	Max. Current	Tolerance	Ripple & Noise ⁽¹⁾	Max. Power	Efficiency 115 / 230 Vac
FSP065-P24-A12	12 V	0 A	5.40 A	±3%	120 mV	65W	88 / 89%
FSP065-P24-A19	19 V	0 A	3.42 A	±3%	190 mV	65W	89 / 90%
FSP065-P24-A24	24 V	0 A	2.70 A	±3%	240 mV	65W	90 / 90%
FSP065-P24-A54	54 V	0 A	1.20 A	±3%	300 mV	65W	91 / 92%

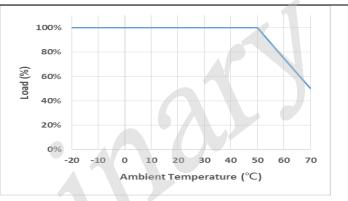
Notes:

(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 μ F tantalum capacitor in parallel with a 0.1 μ F ceramic capacitor across the output.

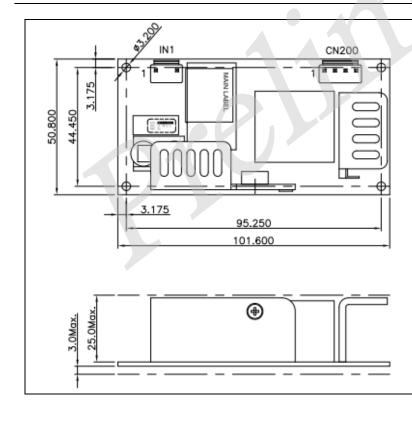
INPUT VOLTAGE DERATING CURVE



OUTPUT DERATING CURVE



MECHANICAL SPECIFICATIONS



Note:

 IN1: JST B2P3-VH(LF)(SN) or EQU

Pin 1		Neutral		
Pir	n 2	NC		
Pir	า 3	Line		

2. CN200: JST B4P-VH(LF)(SN) or EQU

Pin 1, 2	V+
Pin 3, 4	RTN

- Dimension (L*W*H):
 101.6 * 50.8 * 26.6 mm
 4" * 2" * 1.047"
- 4. Weight:134 grams. (0.295 lbs.) approx.