

RoHS

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DESCRIPTION

This AC-DC switching power supplies in a package of 3 x 5 inches is a Class-II PSU and no load power consumption less than 0.21W. This PSU is capable of delivering 65 watts continuous power at convection cooling and 50°C operation temperature. Product is suitable for audio & video, display, house hold (Europe), information, and networking application.

FEATURES

- Class-II design
- Design to meet IEC 60950-1, IEC 60065-1, IEC 62368-1 and EN 61558-1 safety standard
- Compact dimension 3"x5"x1.126"
- No load power consumption less than 0.21W
- . EN 55032 Class B radiated emission
- High altitude 5000 meters operation
- OTP, Brown out protection

INPUT SPECIFICATIONS

Input voltage: Input frequency: Input current: No load power consumption Touch current:

90-264 VAC 47-63 Hz 1.7 A (rms) for 115 VAC 0.8 A (rms) for 230 VAC ≤0.21W 250 uA max. @ 264 VAC, 63 Hz

OUTPUT SPECIFICATIONS

Protection:

Brown out

Output voltage/current: See rating chart. Total output power: 65W Over voltage (12V, 24V) Set at 110~130%, Set at 180~200%, (5V) of nominal output voltage, Auto recovery Short circuit & overcurrent Output protected to short circuit condition and auto recovery Over temperature Detected by thermistor, auto recovery Set at 75VAC Temperature coefficient: All outputs $\pm 0.04\%$ /°C 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: Storage temperature: Relative humidity: Derating

-20°C to +70°C -40°C to +85°C 5% to 95% non-condensing Derate from 100% at +50°C linearly to 50% at +70°C, applicable to convection cooling conditions

FSP065-P35 A Series



SAFETY STANDARD APPROVAL

IEC 62368-1, IEC 60950-1



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

GENERAL SPECIFICATIONS

Efficiency: Power turn on time Hold-up time:

Line regulation: Inrush current:

Operating altitude Withstand voltage: Isolation Resistance: MTBF:

EMC Performance EN55032 FCC: VCCI: EN61000-3-2: EN61000-3-3: EN61000-4-2: EN61000-4-3: EN61000-4-4: EN61000-4-5 EN61000-4-6: EN61000-4-8: EN61000-4-11:

See rating chart. 1.0 Sec maxi. 10 mS minimum @ 100% load & 115 VAC 20 mS minimum @ 100% load & 230 VAC ±0.5% maximum at full load 55A @ 115VAC @ 25°C cold start 100A @ 230 VAC @ 25°C cold start 5000 meters above sea level 3000 VAC from input to output Input to output 100M ohm @ 500Vdc, 25°C 400,000 hours minimum at full load at 25°C ambient, calculated per BELL CORE SR-332

Class B conducted, class B radiated Class B conducted, class B radiated Class B conducted, class B radiated Harmonic distortion, class A Line flicker ESD, ±8 KV air and ±4 KV contact Radiated immunity, 3 V/m Fast transient/burst. ±1 KV Surge, ±1 KV diff, ±2 KV com Conducted immunity, 3 Vrms Magnetic field immunity, 3 A/m Voltage dip immunity, 240Vac 30% reduction for 500 ms, criteria A >95% reduction for 10 ms, criteria A >95% reduction for 5000 mS, criteria B

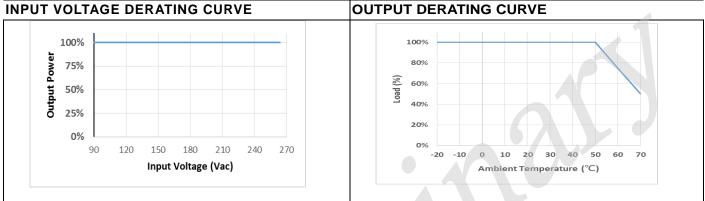
OUTPUT VOLTAGE / CURRENT RATING CHART

Model	Output Voltage	Min. Load	Max. Current	Tolerance	Ripple & Noise ⁽¹⁾	Max. Power	Efficiency 115 / 230 Vac
FSP065-P35-A05	5 V	0 A	13.0 A	±3%	100 mV	65W	84 / 86%
FSP065-P35-A12	12 V	0 A	5.42 A	±3%	120 mV	65W	87 / 88%
FSP065-P35-A24	24 V	0 A	2.71 A	±3%	240 mV	65W	87 / 88%

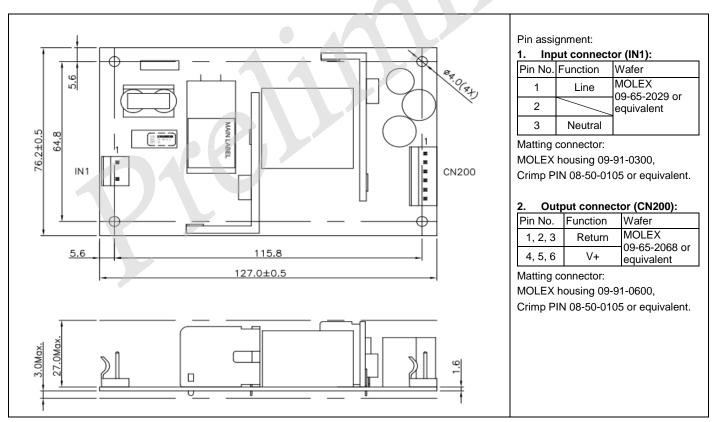
Notes:

(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.

INPUT VOLTAGE DERATING CURVE



MECHANICAL SPECIFICATIONS



Dimension (L*W*H): 127 * 76.2 * 28.6 mm (5" * 3" * 1.126") Weight: 200 grams. (0.44 lbs.) approx.