

DESCRIPTION

This AC-DC switching power supplies in a package of 3 x 5 inches is a Class-I PSU and no load power consumption less than 0.21W. This PSU is capable of delivering 200 watts continuous power at 7 CFM forced air cooling or 150 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-I design
- Design to meet IEC 60950-1, IEC 60065-1, IEC 62368-1 & IEC 61558-1 (optional *note1) safety standard
- Low profile 3 x 5 x 1.284 inches
- 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
- Fan driver 12V

INPUT SPECIFICATIONS

Input voltage:	90-264 VAC
Input frequency:	47-63 Hz
Input current:	2.5 A (rms) for 115 VAC
	1.2 A (rms) for 230 VAC
No load power consumption	≦0.21W
Earth leakage current:	0.75 mA max. @ 264 VAC, 63 Hz
Touch current:	0.25 mA max. @ 264 VAC, 63 Hz

OUTPUT SPECIFICATIONS

Output voltage/current:See raFan driverNon-reTotal output power:200WProtection:Over voltage:Over voltage:LatchShort circuitAuto rOver current:Auto rOver temperature:LatchBrown-outSet atTemperature coefficient:All outTransient response:Maxim

See rating chart. Non-regulated 12V @ 500 mA max. 200W

Latch off Auto recovery Auto recovery Latch off Set at 75VAC

All outputs ±0.04% /°C maximum Maximum excursion of 4% 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 both convection and forced-air cooling conditions

FSP200-P35 SERIES



RoHS

SAFETY STANDARD APPROVAL



IEC 62368-1



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

GENERAL SPECIFICATIONS

Power factor: 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: EN61000-4-2: EN61000-4-2: EN61000-4-3: EN61000-4-4: EN61000-4-5: EN61000-4-6: EN61000-4-8: EN61000-4-11: 0.98 minimum @ 115VAC & 100% load 0.95 minimum @ 230VAC & 100% load See rating chart. 1.5 Sec maxi.

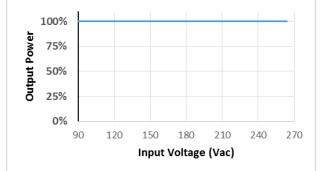
20 mS minimum at 115 VAC @ 150W 8 mS minimum at 115 VAC @ 200W ±0.5% maximum at full load 40 A @ 115 VAC, at 25°C cold start, 150W 80 A @ 230 VAC, at 25°C cold start, 150W 5000 meters above sea level 3000 VAC from input to output, 1500 VAC from input to ground, 1500 VAC from output to ground Input to output 100M ohm @ 500Vdc, 25°C 200,000 hours mini. 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 and D Line flicker ESD, ±8 KV air and ±4 KV contact Radiated immunity, 3 V/m Fast transient/burst, ±1 KV Surge, ±2 KV diff., ±4 KV com Conducted immunity, 3 Vrms Magnetic field immunity, 1 A/m Voltage dip immunity, 30% reduction for 500 ms, criteria A >95% reduction for 10 ms, criteria A

UNIVERSAL INPUT

FSP200-P35 SERIES

INPUT VOLTAGE DERATING CURVE



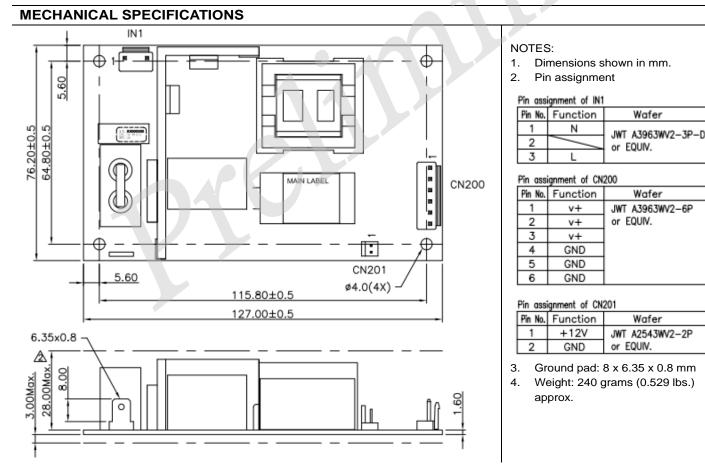
OUTPUT VOLTAGE/CURRENT RATING CHART

Output Efficiency Max. Max. Model Load Ripple & Min. Max. 115 / 230 Vac V1 Current Current Power⁽²⁾ Load Regulation Noise⁽¹⁾ (typical) convection 10 CFM FSP200-P35-A12 12 V 0 A 12.5 A 16.67 A ±3% 120 mV 150 W / 200 W 89 / 90% FSP200-P35-A24 24 V 0 A 6.25 A 8.34 A ±3% 240 mV 150 W / 200 W 90 / 91% FSP200-P35-A54 54 V 0 A 2.78 A 3.70 A ±3% 500 mV 150 W / 200 W 90/91%

NOTES:

Ripple and noise is maximum peak to peak voltage value measured at output within 20 MHz bandwidth, at rated line voltage 1. and output load ranges, and with a 47 µF electrical capacitor in parallel with a 0.1 µF ceramic capacitor across the output. 2

The first value of maximum current is at convection cooling. The second value is with 7 CFM forced air provided by user.



Note 1: Please contact with sales office for P/N which PSU comply with EN 61558-1.

OUTPUT POWER DERATING CURVE

