

PC Power Supply ATX Series

LITEON[®]

750W Multiple Output 80+Bronze Efficiency Data Sheet

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Description

This is a high efficiency and high power factor (PF), multiple-output AC to DC switching mode power supply unit which can provide up to 750 watts continuous with forced cooling by a smart FSC (fan speed control) circuitry. There is a built-in auxiliary converter (5Vsb) for energy saving purpose. It complies with 80+brone as well as worldwide safety and EMC regulations (refer to details below). It is suitable for various consumer, commercial and gaming PC applications.

- * Full AC input voltage range design.
- * High power factor and less fictitious power.
- * Withstand 300Vac surge voltage for 5 seconds.
- * Full Protections: Short-circuit/ Over-voltage/ Over-current/ Over temperature.
- * INTEL[®] ATX 3.1 compliance.
- * Smart fan silence mode (light load)
- * IEC/EN 62368-1 design compliance.
- * Up to 5000 meters operating altitude (note#4)
- * High efficiency and high reliability.
- * REM_ON/OFF and PWR_OK signal



Electrical Specification

Model Name	PS-5751-7			
Output				
Rated power	750W			
Rated voltage	12V	5V	3.3V	5Vsb
Rated current	62.5A	15A	8A	4A
Ripple & Noise(max.) (note #2)	120mV	50mV	50mV	50mV
Line & load regulation	±5%	±5%	±5%	±5%
Hold-up time(min.) (note #5)	16ms			
Timing: AC ON delay / rising (max.)	2 sec / 20ms			
Input				
Rated voltage range	100~240Vac			
Operated voltage range	90~264Vac, 300Vac for 5 sec			

Current range (max.)	10A/100Vac
Power factor (typ.)	>0.99/115Vac; >0.95/230Vac
Inrush current (typ.)	No component damaged (<I ² *t)
Frequency range	50-60Hz
Leakage current (max.)	<3.5mA at 240Vac
Efficiency (min.)	82% - 85% - 82% (at 20% - 50% - 100% of rated load)
Standby power saving (min.)	Pin<1.0W at 5Vsb/0.1A, Pin<0.5W at 5Vsb/0.05A (at REM_OFF)
Protection Function	
Over voltage (max.)	145% of rated voltage, latch-off protection for +12V/+5V/+3.3V
Over current (max.)	<81.2A for +12V rail, <240VA for +5V/+3.3V <8A, hiccup protection for +5Vsb
Short circuit at O/P	No damage, latch-off protection for +12V/+5V/+3.3V No damage, hiccup protection for +5Vsb
Over temperature	No damage, latch-off protection
Others	
MTBF (min.) (note#3)	700K hours @ rated load
Environment	
Temperature	(operating) 0~40°C / (storage) -40~85°C
Humidity	(operating) 10~90% RH non-condensing / (storage) 5~95% RH
Altitude (max.)	5000 meters
Mechanical	
Dimension	150.0(L)*140.0(W)*86.0mm(H)
Vibration	10~500 Hz, 5G 20min./1cycle per axis for all axes (X, Y, Z)
Weight (typ.)	1.5kg
Safety	
Standard	IEC/EN 60950-1, K60950-1, IEC/EN 62368-1, CNS14336-1
Withstand voltage	Input-Output: 4242VDC / Input-FG: 2150VDC
Isolation resistance(min.)	Input-Output: 100Mohm @ 500VDC, 25°C, 70%RH
EMC	
EN55032 (CISPR32)	Conducted EMI: class B / Radiated EMI: class B
FCC	Conducted EMI: class B / Radiated EMI: class B
EN61000-3-2	Harmonic distortion: class D
EN61000-4-2	ESD: ±8KV contact discharge / ±15KV contact discharge
EN61000-4-3	Radiated RF immunity: 3V/m
EN61000-4-4	EFT: ±1KV (AC port)
EN61000-4-5	Surge: ±1KV DM / ±2KV CM
EN61000-4-6	Conducted RF immunity: 3V/m

EN61000-4-8	Magnetic field immunity: 3A/m
EN61000-4-11	Voltage dip immunity

Notes

#1: All specification defined at 230Vac/50Hz, rated power and 25°C ambient temperature if not mentioned specifically.

Mechanical Specification

