PC Power Supply ATX Series



700W 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 700 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/ Overcurrent/ Over temperature.
- * INTEL® ATX 2.54 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-7701-2						
Output							
Rated power	700W						
Rated voltage	12V1	12V2	12V3	12V4	5V	3.3V	5Vsb
Rated current	14.5A	18.5A	16.5A	16.5A	15A	8A	4A
Ripple & Noise(max.) (note #2)	120mV	120mV	120mV	120mV	50mV	50mV	50mV
Line & load regulation	±5%	±5%	±5%	±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.) 8A/100Vac Power factor (typ.) >0.99/115Vac; >0.95/230Vac Inrush current (typ.) Frequency range 50-60Hz Leakage current (max.) Leakage current (max.) \$78' - 90% - 87% (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

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.
- #2: Ripple noise is measured with 0.47uF MLCC & 47uF low ESR capacitor.
- #3: Calculated by Telcordia SR332 at 25 $^{\circ}$ C ambient temperature.
- #4: When operating altitude is higher than 2000m, the environment temperature derating factor is 0.36° C/100m.
- #5: Hold up time will be evaluated at 80% of rated load.

Mechanical Specification



