



**FEATURES**

- Complies with Flex ATX & ATX12V Standards
- Meets 1U Height Constraints
- Active PFC Meets EN 61000-3-2
- 80Plus Bronze High Efficiency
- Remote On/Off Control
- High Reliability



**INPUT SPECIFICATIONS**

Input Voltage Range ..... 90~264 VAC  
 Input Frequency ..... 47~63Hz  
 Input Current ..... 4A max. @ 115 VAC, 60Hz  
 2A max. @ 230 VAC, 50Hz  
 Inrush Current ..... 50A @ 115 VAC, 80A @  
 230 VAC, at 25°C cold start  
 Earth Leakage Current ..... 154µA Typ. @ 264 VAC, 60Hz

**OUTPUT SPECIFICATIONS**

Output Power Ratings ..... See Rating Chart  
 Load & Line Regulation ..... See Rating Chart  
 Ripple & Noise ..... See Rating Chart  
 Hold-up Time ..... 17ms min. at full load and  
 nominal input voltage  
 Over Power Protection ..... 150% max.  
 Overcurrent Protection ..... On +3.3V, +5V & +12V  
 Overvoltage Protection, +3.3V ..... 3.7~4.5V  
 +5V ..... 5.7~6.5V  
 +12V ..... 13.3~15.5V  
 Power Turn-on Signal Delay ..... 100~500ms  
 Power Fail Signal Delay ..... 1ms min.  
 Temperature Coefficient ..... 0.01%/°C max.

**GENERAL SPECIFICATIONS**

Efficiency ..... 82% minimum at full load  
 Withstand Voltage ..... 1,500 VAC, input to ground  
 Operating Temperature ..... 0°C to +50°C, no derating  
 Storage Temperature ..... -20°C to +80°C  
 Relative Humidity ..... 85% to 95% non-condensing  
 MTBF ..... 176K hours minimum at full load,  
 25°C ambient, calculated per  
 MIL-HDBK-217F  
 Dimensions ..... 81.5\*40.5\*190 mms

**STANDARDS & COMPLIANCES**

EMC ..... EN 60601-1-2  
 Emissions ..... EN 55011, CISPR 11, FCC  
 Class B conducted & radiated  
 Immunity ..... EN 61000-3-2, EN 61000-4-2,  
 EN 61000-4-3, EN 61000-4-5,  
 EN 61000-4-11  
 Safety Standards ..... IEC/EN/UL 60601-1, 3rd Edition  
 Agency Approvals ..... UL, cUL, TUV, CB, CE  
 Other Standards ..... RoHS, EuP

**OUTPUT VOLTAGE & CURRENT RATING CHART**

Ouput Voltage	Minimum Load	*Maximum Load	Load Regulation	Line Regulation	Ripple & Noise P-P (Max.)
+3.3V	0.3A	9A	±5%	±1%	50mV
+5V	0.5A	12A	±5%	±1%	50mV
+12v	1A	14A	±5%	±1%	120mV
-12V	0A	0.3A	±10%	±2%	120mV
-5V	0A	0.3A	±10%	±2%	100mV
+5Vsb	0A	2.5A	±5%	±1%	50mV

\*Maximum load for +3.3V and +5V is 60W with overall output limited to 220W.  
 \*+3.3V, +5V and +12V will have ±10% regulation with all loads removed.

### MECHANICAL SPECIFICATIONS

