



FEATURES

- 90-264 VAC Universal Input
- Meets ATX12V & EPS12V Standards
- 80 Plus Bronze High Efficiency
- Active PFC meets EN 61000-3-2 Standard
- Approved to UL & IEC 60601-1 3rd Edition
- Low Noise Ball-bearing Fan



INPUT SPECIFICATIONS

Input Voltage Range	90~264 VAC
Input Frequency	47~63Hz
Input Current	8A rms max. @ 115 VAC 4A rms max. @ 240 VAC
Inrush Current	50A @ 115 VAC, 100A @ 230 VAC, at 25°C cold start
Earth Leakage Current	100µA max. @ 115 VAC, 60Hz 150µA max. @ 264 VAC, 50Hz

OUTPUT SPECIFICATIONS

Output Power Ratings	See rating chart
Load Regulation	See rating chart
Line Regulation	±0.5% max. at full load
Ripple & Noise*	See rating chart
Hold-up Time	13ms min. @ 110/230 VAC
Switching Frequency	85KHz typ.
Overvoltage Protection, +3.3V ...	3.7~4.8V
+5V	5.7~7.0V
+12V	13.4~16.0V
Overcurrent Protection, +3.3V	38~48A
+5V	35~50A
+12V	20~28A
Short-Circuit Protection	On +3.3V, +5V & +12V outputs
Temperature Coefficient	±0.04%/°C max.

* Measured with 20MHz bandwidth at rated line voltage and output load ranges, with a 47µF tantalum capacitor in parallel with a 0.1µF ceramic capacitor in parallel across the output.

OUTPUT VOLTAGE & CURRENT RATING CHART				
Output Voltage	Minimum Load	*Maximum Load	Load Regulation	Ripple & Noise VP-P Max.
+3.3V	0.5A	24A	±5%	50mV
+5V	0.5A	24A	±5%	50mV
+12V ₁	0.5A	16A	±5%	120mV
+12V ₂	0.5A	16A	±5%	120mV
+12V ₃	0.5A	16A	±5%	120mV
+12V ₄	0.5A	16A	±5%	120mV
-12V	0A	0.5A	±10%	120mV
+5Vsb	0.1A	3.5A	±5%	50mV
-5V	0A	0.2A	±10%	100mV

* The overall output power is 600W maximum.
* The total output power for +3.3V & +5V is 160W maximum.

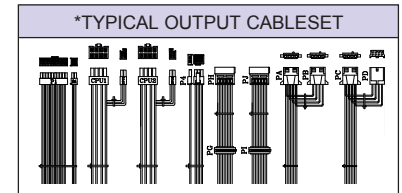
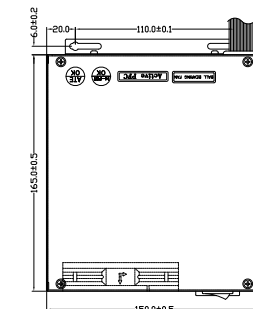
GENERAL SPECIFICATIONS

Efficiency	82% min. at full load
Operating Temperature	0°C to +50°C
Derating	Derate from 100% @ +50°C linearly to 50% @ +70°C
Storage Temperature	-20°C to +80°C
Relative Humidity	5% to 95% non-condensing
Withstand Voltage	1500 VAC from input to ground
MTBF	100K hours minimum at full load & 25°C ambient, calculated per MIL-HDBK-217F

STANDARDS & COMPLIANCES

EMC Performance	EN 60601-1-2
Emissions	Class B conducted & radiated, EN55011, EN55022, FCC, CISPR 22, VCCI
Immunity	EN 61000-3-2, EN 61000-3-3, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-11
Safety Standards	UL 60601-1, EN 60601-1: 3rd edition
Agency Approvals	UL, TUV, CB, CE
Other Compliance	RoHS

MECHANICAL SPECIFICATIONS



*Custom output cablesets available

