



FEATURES

- 90-264 VAC Universal Input
- Complies with ATX12V and EPS 1U 2.0
- Meets 1U Height Constraints
- Active PFC Meets EN 61000-3-2
- Input Line Fuse Protection
- Overvoltage and Short-Circuit Protections



INPUT SPECIFICATIONS

Input Voltage Range .....	90~264 VAC
Input Frequency .....	47~63Hz
Input Current .....	5A max. @ 115 VAC 3A max. @ 230 VAC
Inrush Current .....	60A @ 115 VAC, 120A @ 230 VAC, at 25°C cold start
Leakage Current .....	0.3mA rms max. @ 264 VAC, 63Hz AC to safety ground
Earth Leakage Current .....	200µA max. @264 VAC. 63Hz

OUTPUT SPECIFICATIONS

Output Power Ratings .....	See Rating Chart
Load Regulation .....	See Rating Chart
Ripple & Noise .....	See Rating Chart
Hold-up Time .....	17ms min. at full load and nominal input voltage
Overload Protection .....	150% max.
Overvoltage Protection, +3.3V .....	3.5~4.8V
+5V .....	5.5~7.0V
+12V, -12V .....	13.4~15.6V
Power Turn-on Signal Delay .....	100~500ms
Power Fail Signal Delay .....	1ms min.
Temperature Coefficient .....	0.01%/°C max.

GENERAL SPECIFICATIONS

Efficiency .....	80% min. at full load
Operating Temperature .....	0°C to +50°C
Storage Temperature .....	-20°C to +80°C
Operating Humidity .....	85% RH non-condensing
Storage Humidity .....	95% RH non-condensing
MTBF .....	100K hours minimum at full load, 25°C ambient, calculated per MIL-HDBK-217F

STANDARDS & COMPLIANCES

EMC .....	EN 60601-1-2
Emissions .....	Class B conducted & radiated EN 55011, FCC, CISPR 22
Immunity .....	EN 61000-3-2, EN 61000-4-2, EN 61000-4-3, EN 61000-4-5, EN 61000-4-11
Safety Standards .....	UL/EN/IEC 60601-1
Agency Approvals .....	UL, cUL, VDE, CB, CE, FCC
Other Compliance .....	RoHS

OUTPUT VOLTAGE & CURRENT RATING CHART

Output Voltage	Minimum Load	*Maximum Load	Load Regulation	Ripple & Noise P-P (Max.)
+3.3V	0.5A	16.0A	±5%	50mV
+5V	0.5A	18.0A	±5%	50mV
+12V <sub>1</sub>	1.0A	16.0A	±5%	120mV
+12V <sub>2</sub>	1.0A	16.0A	±5%	120mV
+12V	0A	0.5A	±10%	150mV
-12V	0A	0.2A	±10%	120mV
+5Vsb	0A	2.5A	±5%	50mV

\*Maximum overall output is 300W.  
 \*Maximum load for +3.3V and +5V is 120W.  
 \*Maximum load for +3.3V, +5V, +12V<sub>1</sub>, and +12V<sub>2</sub> is 281W.  
 \*Maximum load for +12V<sub>1</sub> and +12V<sub>2</sub> is 20A.

### MECHANICAL SPECIFICATIONS

