

### DESCRIPTION

This specification describes a 300 watts power supply. With +5V stand-by, second 12V rail and remote ON/OFF control for ATX-12V system and a "Power factor collector (PFC)" circuit to meet EPA requirement of input range with in 115V/60HZ & 230V/50Hz.

### APPLICATION

Desktop

### WATTAGE

**Wattage:** 300W

### DIMENSION

**Dimension:** 140mm(L) x 150mm(W) x 86mm(H)

### PRODUCT HIGHLIGHT

**Efficiency Level:** 80Plus Bronze  
**Erp Lot:** <0.5W  
**Input Voltage:** 100~240Vac

### INPUT SPECIFICATION

**Input Range:** 100-240 Vac  
**Input Frequency:** 47-63 Hz  
**Input Current:** 115V@ < 3.5 Amps - rms  
 230V@ < 2.0 Amps - rms

### OUTPUT SPECIFICATION

**Output Rise Time:**  
 + 3.3Vdc : 20ms Maximum  
 + 5Vdc : 20ms Maximum  
 + 12Vdc : 20ms Maximum  
 + 5Vsb : 20ms Maximum  
 - 12Vdc : 20ms Maximum

#### \*Output Voltage and Current Rating

	<b>+3.3V</b>	<b>+5V</b>	<b>+12V1</b>	<b>+12V2</b>	<b>-12V</b>	<b>+5Vsb</b>
<b>Ripple-Noise(R-P) mV</b>	50mV	50mV	50mV	120mV	200mV	50mV
<b>Regulation Load %</b>	±5%	±5%	±5%	±5%	±10%	±5%
<b>Output Max.(A)</b>	21A	20A	14A	14A	0.5A	2.5A
<b>Output Min.(A)</b>	0.1A	0.2A	0.1A	0.5A	0A	0A

### NOTES

( 1 ) +3.3V & +5V total output not exceed 105W.

( 2 ) Maximum combined current for the +12V outputs shall be 24A.

( 3 ) +12V2 Peak current is 18A (less then 10m Sec.) , minimum voltage during peak is >11.0Vdc.

( 4 ) +5Vsb Peak current is 3.5A(less then 500m Sec.) , minimum voltage during peak is > 4.5Vdc.



### SAFETY STANDARD APPROVAL



### GENERAL SPECIFICATION

**Efficiency:** 82%@ 20% load; 85%@ 50% load;  
 82%@ 100% load  
**PWOK Delay Time:** 500ms > PWOK > 100ms  
**EMC Performance:** EN55022 class B,

### ENVIRONMENTAL SPECIFICATION

**TEMP.Range:** Operating Temperature:10°C to +50°C  
 Storage Temperature: -20°C to +80°C

**MTBF:** The power supply reliability,when calculated by MIL-HDBK-217;latest revision, are exceed 100,000 hours with all output at maximum load and an ambient temperature of 25°C.