

Output Voltage	Min. Load	Rated Load	Max. Load	Voltage Accuracy
+5V	2A	25A	30A	4.8~5.2V
+12V	0.1A	10A	15A	11.4~12.6V
-12V	0A	1A	2A	-11.4~-12.6V
-5V	0A	1A	2A	-4.75~-5.25V
+3.3V	0A	8A	15A	3.13~3.4V
+5Vsb	0A	0.72A	1.2A	4.75~5.25V

## Specifications

**Input Voltage** 

The range of input voltage is from 72~136VDC **Input Current** 

The maximum input current is 5A at 110VDC input **Inrush Current** 

Will not exceed 10A at 110VDC input cold start, 25°C Load Range

At factory, all outputs in 60% rated load condition; the +5V output is set to between 4.80V and 5.20V. The other outputs are checked to be within the specified voltage accuracy range

**Ripple And Noise** 

The peak to peak ripple and noise for +5V, +3.3V outputs are less than 50mV, and for the other output are less than 100mV at rated load. Measuring is done by 15MHz bandwidth limited oscilloscope and terminated each output with a 0.47uF capacitor electrolysis capacitor at rated load, nominal line

**Line Regulation** 

The output line regulation for each output is less than +/-1% while measuring at rated load and -40~-72VDC input voltage changing **Load Regulation** 

The output voltage load regulation is less than the values in the following table by changing each output load +/-40% from 60%from rated load, and keep other outputs at 60% rated load **Output Power** 

The total DC continuous power shall be kept within 300W ambient temperature of 40°C below, and input voltage at 110VDC. The maximum, total combined output power on the 3.3V and 5V rails is 150W

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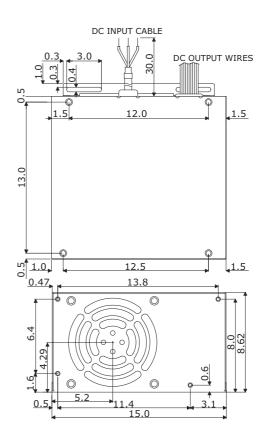
This TTL compatible signal (active low) is use to switch ON the main output. When power on is disconnected from secondary common, all outputs except +5Vsb shall turn off

**Power Good Signal** 

When power start-up, the power good signal will increase between 100ms to 500ms after all output DC voltages are within regulation limits

**Power Fail Signal** 

The power fail signal will fall at least 1ms before any of the output voltages lower than the regulation limits



## **Efficiency**

The efficiency is higher than 65% while measuring at nominal line and rated output

Altitude

Will operate properly at any altitude between 0 to 10,000ft **Protection** 

Over Voltage: For some reasons the power supply might fail to control itself, the build-in crowbar circuit will automatically shut down the outputs to avoid damaging the external circuits. The trip point of O.V.P. circuit is around 5.7V to 7.0V

Short Circuit: The power supply will go into hiccup mode function against short circuit or over load conditions. If the faults condition removed, the power supply will restart automatically

Temperature

0~+70°C, -20°C can start up, derating from 50°C (operating); -40~+75°C (storage)

Humidity

The power supply can operate from 5% humidity to 95% humidity non-condensing at 40°C

**Connectors** 

DC Connectors: 3 positions terminal blocks ATX: Molex 39-01-2200 or equivalent Disk Drive: AMP 1-480424-0 or equivalent 3.5" Floppy Driver: AMP 171822-4 or equivalent P4: Molex 39-01-2045 or equivalent

Safety

EN 60950

**EMI** 

EN55022 (1998) / EN55011 (1999)

IEC 61000-4-2 / IEC 61000-4-3 / IEC 61000-4-4 **Dimensions** 

 $14.0 \times 15.0 \times 8.62$  cm; Tolerance specified is  $\pm$ -0.4mm between mounting holes and +/-0.8mm for other dimensions