

## **SPECIFICATION**

**MODEL NO. : EJ-850A80**

**850 WATTS SWITCHING POWER SUPPLY**

**VERSION 0.1(D)**

**• June. 30. 2006 •**

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## 1.0 INPUT:

### 1.1 VOLTAGE

MINIMUM	NOMINAL	MAXIMUM	UNITS
90	115~230	264	Vrms

### 1.2 FREQUENCY

47Hz ~ 63Hz

### 1.3 CURRENT

115Vac / 12.0A max. 230Vac / 6A max.

### 1.4 INRUSH CURRENT

55A max. when AC input 115Vac at 25<sup>0</sup>C cold start.

110A max. when AC input 230Vac at 25<sup>0</sup>C cold start.

### 1.5 POWER EFFICIENCY

80% (min.) at full load(typical) and 115Vac input.

### 1.6 LEAKAGE CURRENT

3.5mA max.

### 1.7 POWER FACTOR

PF > 0.9

## 2.0 OUTPUT:

Voltage	+5V	+3.3V	+12V1	+12V2	+12V3	+12V4	-12V	+5Vsb
.1. Max load	30.0A	30.0A	18.0A	18.0A	30.0A	30.0A	0.8A	3.0A
Min load	2.0A	0.5A	1.0A	1.0A	1.0A	1.0A	0.0A	0.0A
Peak load	--	--	--	--	--	--	--	3.5A
.3. Regulation	+3,-3%	+3,-3%	+3,-3%	+3,-3%	+3,-3%	+3,-3%	+9,-5%	+3,-3%
.2. Ripple & Noise	50mV	50mV	240mV	240mV	240mV	240mV	120mV	50mV

•1• The continuous total output power is 850W max.

The combined power of +5V and +3.3V is 180W max.

Peak currents may last up to 12 seconds with not more than one occurrence per minute.

Total combined +12V output load not exceed 62A

•2• Add 0.1uF and 10uF capacitors across output terminal during ripple & noise test.

### •3• LOAD REGULATION TEST TABLE:

	+5V	+3.3V	+12V1	+12V2	+12V3	+12V4	-12V	+5Vsb
LOAD1	2.0A	0.5A	1.0A	1.0A	1.0A	1.0A	0.0A	0.0A
LOAD2	6.0A	4.0A	1.0A	1.0A	2.0A	2.0A	0.0A	0.5A
LOAD3	16.0A	30.0A	3.0A	3.0A	4.0A	4.0A	0.3A	1.0A
LOAD4	30.0A	9.0A	18.0A	6.0A	6.0A	6.0A	0.3A	1.0A
LOAD5	10.0A	9.0A	8.0A	18.0A	10.0A	10.0A	0.5A	1.5A
LOAD6	30.0A	0.5A	8.0A	9.0A	10.0A	30.0A	0.5A	2.0A
LOAD7	8.0A	6.0A	11.0A	11.0A	30.0A	10.0A	0.8A	2.5A
LOAD8	2.0A	30.0A	10.0A	10.0A	18.0A	18.0A	0.8A	3.0A

#### 2.1 REMOTE ON/OFF

TTL High/PS-OFF; TTL Low/PS-ON

$V_{IL}=0.8V_{max}$ ,  $I_{IL}=-1.6mA_{max}$  @ $V_{in}=0.4V$

$V_{IH}=2.0V_{min}$  @ $I_{in}=-200\mu A$ ,  $V_{IH}=5.25V_{max}$  @open ckt.

#### 2.2 HOLD-UP TIME

16msec (minimum) at 80% of full load at 230Vac input.

**2.3 POWER GOOD DELAY**

100-500 msec.

**2.4 POWER FAIL DELAY**

>1 msec.

**2.5 TURN-ON DELAY TIME**

2000 msec max. At Nominal Line Full Load.

**2.6 TRANSIENT OVERSHOOT**

+/- 10% max with 20% load change on all outputs are 50% of the rated.

Load slew rated 0.5A/uS and capacitive load as below :

+5V	+3.3V	+12V <sub>1</sub>	+12V <sub>2</sub>	+12V <sub>3</sub>	+12V <sub>4</sub>	-12V	+5Vsb
1000uF	1000uF	2200uF	2200uF	2200uF	2200uF	NA	1uF

**2.7 RISE TIME**

20ms max at full load.

**3.0 PROTECTION:**

When OCP, OVP or short protection is triggered, the main outputs will be latched off. The main outputs can be reset by cycling the DC remote on/off or AC power. +5Vsb output is auto recovery when fault condition removed.

**3.1 OVER CURRENT PROTECTION**

Not over 240VA for every output voltage.(Not including 12V output)

**3.2 OVER VOLTAGE PROTECTION**

+3.3V output 4.5 Vmax.

+5.0V output 7.0 Vmax.

**+12.0V output 15.6 Vmax.**

### **3.3 SHORT PROTECTION**

**All output to GND.**

## **4.0 ENVIRONMENT:**

<b>4.1 OPERATING TEMP.</b>	<b>10 °C to +50 °C</b>
<b>4.2 STORAGE TEMP.</b>	<b>-20 °C to +70 °C</b>
<b>4.3 OPERATING HUMIDITY</b>	<b>20% to 90%,non-condensing</b>
<b>4.4 STORAGE HUMIDITY</b>	<b>5% to 95%, non-condensing</b>
<b>4.5 OPERATING ALTITUDE</b>	<b>0 to 10,000 feet</b>
<b>4.6 STORAGE ALTITUDE</b>	<b>0 to 50,000 feet</b>

## **5.0 HI-POT:(Input/Output isolation)**

### **5.1 PRIMARY TO SECONDARY**

**3535Vdc for 3 seconds**

### **5.2 INSULATION RESISTANCE**

**Primary to earth ground 500Vdc , 50M ohms Min.**

## **6.0 CE REQUIREMENTS**

### **6.1 CONDUCTED EMI**

- 1. MEET FCC Class B**
- 2. MEET CISPR 22 Class B**
- 3. MEET BSMI Class B**

## **6.2 SAFETY STANDARDS**

- 1. MEET CUL (UL 60950)**
- 2. MEET TUV EN60950**
- 3. MEET CB (IEC 950 )**
- 4. MEET CE**
- 5. MEET CCC**

## **6.3 HARMONIC**

**MEET IEC1000-3-2,Class D**

## **7.0 MTBF at 25° C(demonstrated)**

**100K hrs minimum**

## **8.0 DIMENSIONS**

**Y=V WxLxH=150x160x86mm 140mm FAN x1 ON TOP**

**Y=R WxLxH=150x160x86mm 80mm FAN x1 IN FRONT & 80mm FAN x1 IN REAR**

**(V• R only for cable management series)**