



SWITCHING POWER SUPPLY

PRODUCT SPECIFICATIONModel:SSA-0601S-1
(12V/5A)

File: EA-SA-61S-121

Date: July ,19, 2002

Page: 1 of 4

1. Introductions •	2
2. AC Input Characteristics •	2
2.1 Input Voltage Rating •	2
2.2 Input Voltage Range •	2
2.3 Input Frequency •	2
2.4 Inrush current •	2
2.5 Input current •	2
2.6 Efficiency •	2
3. Output Characteristics •	2
3.1 Static Output Specifications Table •	2
3.2 Dynamic Output Characteristics •	2
3.3 Output Transient Response •	2
3.4 Power up Overshoot and Undershoot •	3
3.5 Over Voltage Protection (OVP) •	3
3.6 Over Current Protection (OCP) •	3
3.7 Short Circuit Protection(SCP) •	3
4. Environment •	3
4.1 Operating Temperature •	3
4.2 Operating Relative Humidity •	3
4.3 Storage Temperature •	3
4.4 Storage Relative Humidity •	3
5. Mean time between failure(MTBF) •	3
6. Dielectric Withstand Voltage •	3
6.1 primary to secondary •	3
6.2 leakage current •	3
7 EMS Standard •	3
8. RFI/EMC(Conducted & Radiation) •	3
9. Safety Standard •	3
10. Mechanical Specifications •	3



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Page: 2 of 4

1. Introductions •

This document specifies the product model number **SSA-0601S-1** a **60** watt Adaptor switching mode power supply, this unit is designed to meet the relevant specification and regulation as following.

2. AC Input Characteristics •

- 2.1 Input Voltage Rating •** 100 Vac to 240 Vac.
- 2.2 Input Voltage Range •** 90 Vac to 264 Vac.
- 2.3 Input Frequency •** 47 Hz to 63 Hz.
- 2.4 Inrush current •** 80 A max. for 220Vac at max. load (cold start).
- 2.5 Input current •** 1.8 A (RMS) max.
- 2.6 Efficiency •** 80% min. at 115Vac/60Hz input at full load

3. Output Characteristics •**3.1 Static Output Specifications Table •**

Output Voltage	Minimum Load	Maximum Load	Regulation	Ripple & Noise
12V	0.1A	5A	+/-0.48V	120mVp-p

Note:

- 1. Ripple & Noise Test • Use 20M Hz bandwidth frequency Oscilloscope
- 2. Add 0.1uF/10uF capacitors at output connector terminals for Ripple & Noise Test

3.2 Dynamic Output Characteristics •

- 3.2.1 Turn-ON delay Time • 4 Sec max. @90Vac
- 3.2.2 Hold up Time • 16 mS min. @115Vac/50Hz input at full load

3.3 Output Transient Response •

Step output from Ia to Ib, then from Ib to Ia, maximum change in voltage must not exceed dVmax and settle by tmax.

(The time required for the output to settle to within 5 percent of the final value.)

Nominal output	Ia (A)	Ib(A)	dVmax (V)	Setting time	dI/dt
12.0V	0.05	2.5	+/-0.6	10mS	>=50mA/usec
12.0V	1.25	3.75	+/-0.6	10mS	>=50mA/usec
12.0V	2.5	5.0	+/-0.6	10mS	>=50mA/usec



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Date: July ,19, 2002

Page: 3 of 4

3.4 Power up Overshoot and Undershoot•

With Vac=115V and 230V respectively, and Ta=25 degree C, tested at both minimum and maximum rated loads. At power up the voltage rings shall remain within the following limit.

Nominal Output	Min/Max Voltage	Setting Time
+12.0V	11.4V/12.6V	10msec

3.5 Over Voltage Protection (OVP)• 17V Max can be protected.**3.6 Over Current Protection (OCP)•** 6.75A Max can be protected.**3.7 Short Circuit Protection(SCP)•**Output can be shorted without damage.(Auto Recovery)**4. Environment•****4.1 Operating Temperature•** 0 to 40 °C**4.2 Operating Relative Humidity•** 0 % to 90 % Non-condensing**4.3 Storage Temperature•** -40 to 75 °C**4.4 Storage Relative Humidity•** 0 % to 90 % Non-condensing**5. Mean time between failure(MTBF)•**

The MTBF for the power supply unit shall equal or exceed 40,000 hours when operated at full rated load in an ambient of 25 °C.

6. Dielectric Withstand Voltage•**6.1 primary to secondary •**3000Vac 10mA for 1 Sec.**6.2 leakage current •**0.1mA max at 240Vac 60Hz.**7. EMS Standard•****Designed to meet:**

IEC-801-2 +/-24KV air discharge with system, +/-8KV contact discharge with system

IEC-801-3 3V/M unmodulated.

IEC-801-4 2KV for directly coupled.

IEC-801-5 2KV for directly coupled.


8. RFI/EMC(Conducted & Radiation)•**Designed to meet•**FCC Class B**9. Safety Standard•****Designed to meet•** UL60950.

CSA 22.2 NO.60950 (CUL).

TUV EN60950.

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10. Mechanical Specifications•

 SWITCHING POWER SUPPLY	PRODUCT SPECIFICATION	File: EA-SA-61S-121
	Model: SSA-0601S-1 (12V/5A)	Date: July, 19, 2002 Page: 4 of 4

