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SWITCHING POWER SUPPLY		

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1.0 INTRODUCTIONS:

1.1 This document specifies the product model number [SSA-0901-12](#) a [80](#) watt Adapter [single](#) output switching mode power supply, this unit is designed to meet the relevant specification and regulation as following.

The specification is typical at nominal line and 25°C ambient.

1.2 Compliant with CEC Level V and EPA Energy Efficiency Level V requirements.

1.3 This product is complied with RoHS request for 6 hazarded substances.

2.0 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: [It shall be limited to a level below the I²t of the fuse and the bridge diode.](#)

2.5 Input current: [2](#)A max. for 110~240Vac at max. load.

2.6 Leakage current: [3.5](#)mA max at 240Vac 50Hz.

2.7 Power Factor: The power factor should be over 90% at 110~240Vac at max. load.

2.8 No load power consumption: < [0.5](#)W at 115Vac/60Hz or 230Vac/50HZ

3.0 OUTPUT CHARACTERISTICS:

3.1 Output specifications table:

Output Voltage	Minimum Load	Maximum Load	Peak Load	Regulation	Ripple & Noise
V1: +12 V	0 A	6.67 A	N/A	±5 %	120 mVp-p

3.2 Line regulation: The line regulation is less than [+/-1](#)% while measuring at max. load and [+/-10](#)% of input voltage change.

3.3 Output Dynamic Response: [+/-8](#)% Max, Excursion for output load [20](#)% to [100](#)% max. load. changes with a 0.1~2.5A/us slew-rate And 1ms / 10ms /20ms.

3.4 Ripple & noise: [120](#)mV at max. load, nominal line. Measuring is done by 20 MHz bandwidth oscilloscope and dc output with a 10uF electrolytic cap parallel 0.1 uF ceramic capacitor. ([150](#)mV max @ 0°C).

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4.0 GENERAL SPECIFICATION:

- 4.1 Efficiency: [87](#)% (Average) at 25%, 50%, 75%, 100% load;
at 115Vac/60Hz or 230Vac/50HZ,25°C.
- 4.2 Hold up time: Minimum [12](#)mS at max load ; 115Vac/60Hz,25°C.
- 4.3 Turn-ON delay Time: [2](#) Sec max; 90Vac with Full Load
- 4.4 Rise time: [25](#)mS typical at max. load ; 115Vac/60Hz,25°C
- 4.5 Overshoot: Any overshoot at turn on or turn off shall be less than
[10](#)% of the nominal output voltage.
- 4.6 MTBF: MIL-HDBK-217F [80,000](#) hours at max. load ;
115V/60HZ & 230V/50HZ, 25°C.

5.0 PROTECTION:

- 5.1 Over voltage protection: [+12](#)V : 16V Max can be protected at No-Load.
- 5.2 Short circuit protection: DC Output to Gnd. Shut -down and latch off protection.
- 5.3 Over current protection: 150% max with shut -down and latch off protection.
- 5.4 Over thermal protection: with shut-down and latch off protection.
- 5.5 Over & undershooting: ±10% of DC output.

6.0 Dielectric Withstand Voltage:

- 6.1 primary to secondary: [3000](#)Vdc [10](#)mA for 1 Sec.
- 6.2 primary to ground: [1772](#)Vac [10](#)mA for 1 Sec.

7.0 SAFETY STANDARD:

Designed to meet: (CUL)UL 60950-1 2nd Edition
CSA C22.2 NO.60950-1-07 2nd Edition
(CB) IEC 60950-1:2005
(TUV) EN60950-1/A11: 2009
CCC
PSE

8.0 EMI STANDARD (Conducted & Radiation):

Designed to meet: FCC class B.
CE (CISPR 22 class B).

9.0 EMS STANDARD:

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Designed to meet:

(CE) EN55022: 2006 CLASS B
EN55024:1998/A1: 2001/A2: 2003
EN 61000-3-3:1995/A1: 2001/A2: 2005
EN 61000-3-2:2006 CLASS D
FCC) FCC Part 15 & Part 2 (CISPR 22 CLASS B)
(C-TICK) AS/NZS CISPR 22:2006 CLASS B

10.0 ENVIRONMENTAL:

10.1 Temperature: [0°C](#) to [40°C](#) (operating).
[-25°C](#) to [75°C](#) (storage).

10.2 Temperature coefficient: [0.04%](#) per °C.

10.3 Relative humidity: Non-condensing [10%](#) to [85%](#) (operating).
Non-condensing [0%](#) to [90%](#) (storage).

10.4 Vibration: Non-operating: [5~500Hz, Acceleration:1G](#).
Sweep rate: [1 oct/min.](#)
Axis:X,Y,Z (10 minutes for each axis).

