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	Model : SSA-0901-12 Rev:A2	Date: Nov. 29, 2010
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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: [100Vac](#) to [240Vac](#).
- 2.2 Input Voltage range: [90Vac](#) to [264Vac](#).
- 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: [2A](#) max. for 110~240Vac at max. load.
- 2.6 Leakage current: [3.5mA](#) 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: < [0.5W](#) 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: +12V	0A	6.67 A	N/A	±5%	120mVp-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: [120mV](#) 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. ([150mV](#) 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 [5](#)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: [+12V](#) : 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: $\pm 10\%$ 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: UL 60950-1 2007
CSA/CAN C22.2 NO. 60950-1: 2007
(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).

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11.0 Mechanical Specifications :

139(L)x58(W)x33.3(H) mm

