

MODEL NO: S15AC12012501  
 CUSTOMER P/N: 252833  
 DESCRIPTION: SWITCHING ADAPTOR  
 ISSUED DATE: 2013.10.11  
 REVISION: 1-3

### TABLE OF CONTENTS

- 1.0 INPUT REQUIREMENTS
- 2.0 OUTPUT REQUIREMENTS
- 3.0 MECHANICAL CHARACTERISTIC
- 4.0 PROTECTION REQUIREMENTS
- 5.0 ENVIRONMENTAL
- 6.0 EMC REQUIREMENTS
- 7.0 SAFETY REQUIREMENTS
- 8.0 RELIABILITY
- 9.0 NET WEIGHT
- 10.0 APPEARANCE DIMENSIONS
- 11.0 SAMPLE TEST DATA
- 12.0 NAMEPLATE DRAWING
- 13.0 PACKING LIST

REV	DESCRIPTION	DATE
1-0	INITIAL RELEASED	2008
1-1	ADD LABEL LA-071	2008.07.15
1-2	CANCEL LABEL LA-071 & ADD DATE CODE ON THE CASE	2009.05.12
1-3	CHANGE OUTER CARTON	2013.10.11

APP.BY \_\_\_\_\_

CHK.BY \_\_\_\_\_

PRE.BY \_\_\_\_\_

**1.0 INPUT REQUIREMENTS:****1.1 INPUT VOLTAGE RANGE:**

THE ADAPTER SHALL OPERATE FROM 90VAC TO 264VAC AC VOLTAGE

**1.2 INPUT RATED VOLTAGE:**

IT IS NOMAL FROM 100VAC TO 240VAC INPUT AC VOLTAGE

**1.3 INPUT FREQUENCY RANGE:**

47 Hz TO 63 Hz

**1.4 INPUT CURRENT:**

0.4 A RMS MAX. AT AC INPUT 100VAC VOLTAGE AND OUTPUT FULL LOAD

**1.5 INRUSH CURRENT:**

60A MAX. AT INPUT 230VAC NOMINAL AND FULL LOAD COLD START, AMBIENT TEMPERATURE 25°C

**1.6 AVERAGE EFFICIENCY IM ACTIVE:**

74.4 % MIN. MEASURED INPUT 115V/230V 50/60Hz AND ACTIVE LOADING OUTPUT

**1.7 NO LOAD POWER:**

THE NO LOAD POWER IS 0.3 W MAX. AT INPUT 115VAC AND 230VAC 50/60Hz

**2.0 OUTPUT REQUIREMENTS****2.1 OUTPUT REGULATION, RIPPLE & NOISE AND CURRENT**

OUTPUT VOLTAGE	OUTPUT TOLERANCE	RIPPLE & NOISE	LOADING	
			MIN	MAX
12VDC	±0.5V	120mV MAX.	0A	1.25A

NOTE: 1. MEASURING IS DONE BY 20 MHz BANDWIDTH LIMITED OSCILLOSCOPE AND TERMINATED EACH OUTPUT WITH A 0.1uF CERAMIC AND 10uF ELECTROLYTIC CAPACITOR

**2.2 OVER SHOOT :**

OVERSHOOT SHOULD NOT EXCEED 10% OVER NOMINAL VOLTAGE

**2.3 HOLD-UP TIME:**

10mS MIN. AT AC NOMINAL INPUT AND OUTPUT FULL LOAD

**2.4 TURN ON DELAY TIME:**

3S MAX. TEST 100VAC AND 240VAC INPUT AND FULL LOAD AT OUTPUT

**2.5 RATED POWER:**

THIS ADAPTER CAPABLE TO SUPPORT 15 WATTS CONTINUOUSLY AT ALL SPECIFIED CONDITIONS

APP.BY \_\_\_\_\_

CHK.BY \_\_\_\_\_

PRE.BY \_\_\_\_\_

---

### 3.0 MECHANICAL CHARACTERISTIC

#### 3.1 CORD STRAIN RELIEF TEST:

AT NORMAL POSITION, 20LBS TO OUTPUT CORD FOR 60 SECONDS EACH,  
THERE SHALL BE NO BREAKAGE DISPLACEMENT

#### 3.2 BENDING TEST:

THE PLUG AND S/R SHOULD WITHSTAND WEIGHT OF 200 GRAM, IT SWINGING  
FROM LEFT TO RIGHT AT AN ANGLE 120 DEGREE FOR 300 CYCLES, AND  
FROM 15-20 CYCLES PER MINUTE, THE CORD SHALL BE CONDUCTIBLE

#### 3.3 DROP TEST:

DROPPED FREELY FROM 3 FEET HEIGHT ONTO A CONCRETE COVERED  
WITH 1/8 INCH VINYL 3 TIME FROM 3 DIFFERENT SURFACE THE UNIT SHOULD  
MEET THE DIELELTRIC WITHSTAND VOLTAGE

### 4.0 PROTECTION REQUIREMENTS:

#### 4.1 OVER VOLTAGE PROTECTION:

  X   VDC MAX.

#### 4.2 SHORT CURRENT PROTECTION:

THE ADAPTER SHOULD BE AUTO-RECOVERY IN CASE ANY SHORT CIRCUIT  
SHOULD OCCUR AT DC OUTPUT TERMINAL

#### 4.3 INPUT OVER CURRENT PROTECTION:

THE INPUT POWER LIME WILL BE FUSE WITH 1A 250VAC

### 5.0 ENVIRONMENTAL REQUIREMENTS

5.1 OPERATING TEMPERATURE: 0°C.....+40°C

5.2 STORAGE TEMPERATURE: -20°C.....+80°C

5.3 OPERATING AND STORAGE HUMIDITY: 20%-80%

### 6.0 EMC REQUIREMENTS

THE SWITCHER DESIGNED TO MEET BLOW STANDARDS

EN55022       EN61000-3-2

EN55024       EN61000-3-3

CISPR 22       CISPR 24

---

APP.BY \_\_\_\_\_

CHK.BY \_\_\_\_\_

PRE.BY \_\_\_\_\_

---

---

## 7.0 SAFETY REQUIREMENTS

### 7.1 SAFETY REGULATION:

- UL 60950-1                       GS EN60950-1  
 CUL 22.2 NO.60950-1-03       CE EN60950-1

### 7.2 DIELECTRIC WITHSTAND VOLTAGE:

THE ADAPTER SHALL BE APPLIED 3000VAC FOR 60 SECONDS OR 4242VDC FOR 60 SECONDS BETWEEN AC INPUT PLUG TO OUTPUT TERMINAL

## 8.0 RELIABILITY

### 8.1 M.T.B.F.:

30000 HOURS OR GREATER UNDER 25°C OF AMBIENT TEMPERATURE

### 8.2 BURN-IN TEST:

THE ADAPTER SHALL UNDERGO A MINIMUM 2 HOURS BURN-IN TEST AT 40°C AMBIENT TEMPERATURE UNDER 80% FULL LOAD CONDITION

9.0 NET WEIGHT: 105.2 g

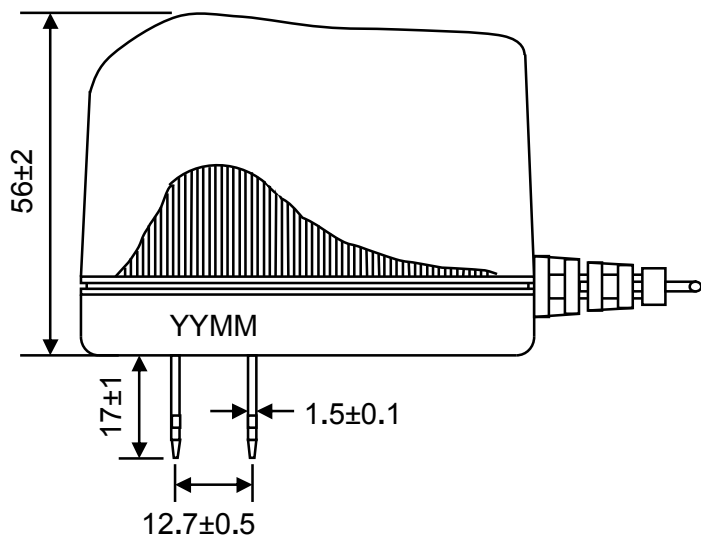
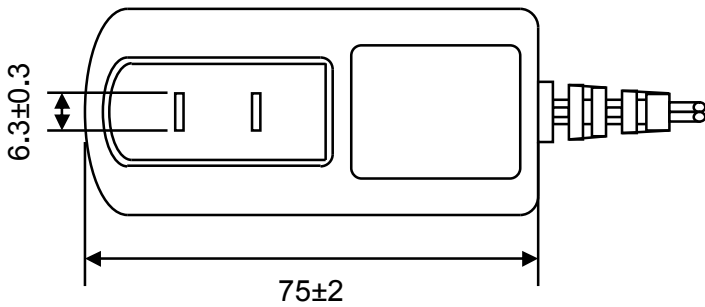
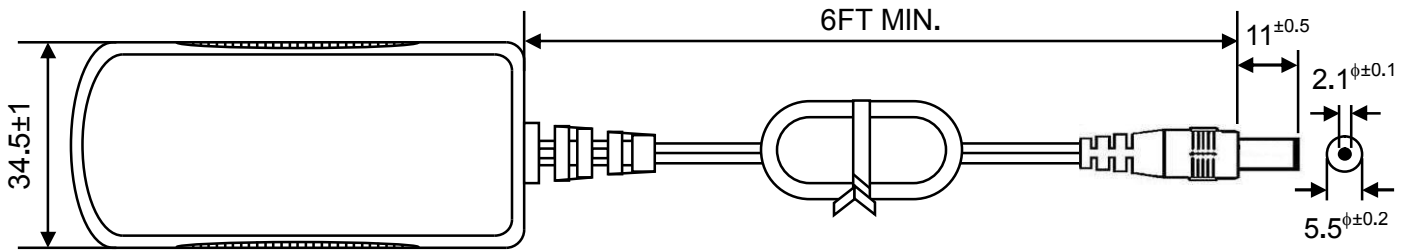
APP.BY \_\_\_\_\_

CHK.BY \_\_\_\_\_

PRE.BY \_\_\_\_\_

---

10. APPEARANCE DIMENSIONS: (UNIT:mm)



NOTE:  
 OUTPUT CORD: UL2468 AWG#22  
 DC PLUG:  $5.5^{\phi\pm 0.2} \times 2.1^{\phi\pm 0.1} \times 11^{\phi\pm 0.5}$   
 CENTER: ⊕

DATE CODE: YYMM (YEAR/MONTH)

APP.BY \_\_\_\_\_

CHK.BY \_\_\_\_\_

PRE.BY \_\_\_\_\_

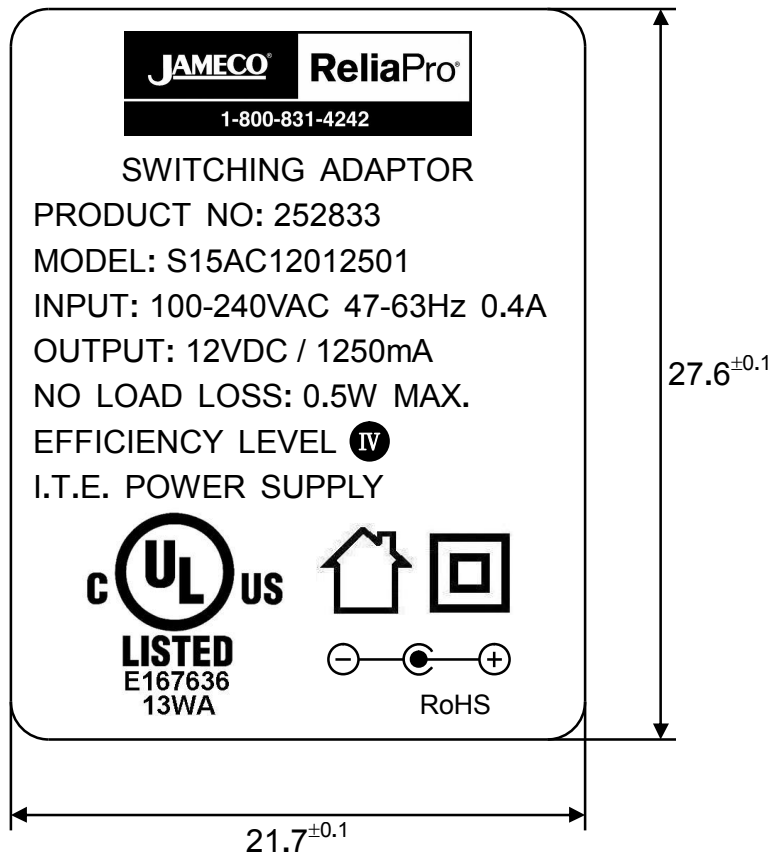
11. SAMPLE TEST DATA:						
ITEM	SPEC.	1	2	3	4	5
PRIMARY LOAD CURRENT INPUT 100 VAC 60 Hz	400 mA MAX.	293				
SECONDARY NO LOAD OUTPUT VOLTAGE	12V±5%	12.36				
SECONDARY DC VOLTAGE LOAD 1250 mA CURRENT	12V±5%	12.03				
SECONDARY LOAD 1250 mA RIPPLE VOLTAGE(Vp-p)	100 mV MAX.	108				
PRIMARY LOAD CURRENT INPUT 240 VAC 50 Hz	400 mA MAX.	161				
SECONDARY NO LOAD OUTPUT VOLTAGE	12V±5%	12.36				
SECONDARY DC VOLTAGE LOAD 1250 mA CURRENT	12V±5%	12.02				
SECONDARY LOAD 1250 mA RIPPLE VOLTAGE(Vp-p)	120 mV MAX.	100				
NO LOAD POWER INPUT 115 VAC 60 Hz	0.5W MAX	0.18				
NO LOAD POWER INPUT 230 VAC 50 Hz	0.5W MAX	0.18				
EFFICIENCY INPUT 115 VAC 60 Hz	74.4 % MIN.	78.3				
EFFICIENCY INPUT 230 VAC 50 Hz	74.4 % MIN.	80.0				
HI-POT TEST	INPUT TO OUTPUT	AC 3000V/10mA Or DC 4242V/10mA 60 SECONDS	OK			

APP.BY \_\_\_\_\_

CHK.BY \_\_\_\_\_

PRE.BY \_\_\_\_\_

12. NAMEPLATE DRAWING: (UNIT:mm)



**IV** ← 黑底銀字

- 1.材質:Plastic Film
- 2.厚度:0.2
- 3.印刷:銀底黑字

APP.BY \_\_\_\_\_

CHK.BY \_\_\_\_\_

PRE.BY \_\_\_\_\_