



SHANGHAI SUNTRONICS TECHNOLOGY CO.,LTD

SPSH-034839

DSA-15P-12 EU 120144

Revision: A

Date: 2010,01,11

CUSTOMER: ACUWA

PART NUMBER:



**APPROVAL
SHEET**

FOR

SWITCHING ADAPTER

MODEL NO.

DSA-15P-12 EU 120144

ORDER NO: SPSH-034839

承認書確認后請簽回一份

CUSTOMER APPROVED SIGNATURE

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APPROVAL BY	SAFETY	DIRECTOR	ENGINEER	PREPARED



0. REVISION CONTROL LIST

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DATE	REVISION CONTROL ITEMS						
	CONTENT OF APPROVAL SHEET	SPECIFICATION	RATING LABEL DRAWING	DC OUTPUT CORD DRAWING	PRODUCT OUTLINE DRAWING	PACKING DRAWING	SAFETY LICENSE
2010,01,11	A	A	A	A	A	A	A

REVISION CHANGE DESCRIPTION

ITME	REV	DESCRIPTION

1. SPECIFICATION

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0. REVISION CHANGE DESCRIPTION

Revision	Description	Date
A	Initial release	2010,01,11

1.GENERAL DESCRIPTION

This specification defines the input, output, performance characteristics, environment, noise and safety requirements for a 14.4 watts switching type power adapter.

The adapter input/output are full range AC input and +12V DC with 14.4 watts maximum output.

2.INPUT REQUIREMENT

2-1 AC INPUT VOLTAGE

MINIMUM	NOMINAL	MAXIMUM
90VAC	100-240 VAC	264 VAC

2-2 AC INPUT FREQUENCY

MINIMUM	NOMINAL	MAXIMUM
47 Hz	50 / 60 Hz	63 Hz

2-3 AC INPUT CURRENT

NOMINAL AC INPUT VOLTAGE	0.5 A maximum
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2-4 AC INRUSH CURRENT

AT FULL LOAD, 25 DEGREE C, COLD START

NOMINAL AC INPUT VOLTAGE	No damage shall be occurred and the input fuse shall not be blown up.
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2-5 CONFIGURATION

Wall-mount type, EU-pin, 2 Conductors, < Live, Neutral >

2-6 POWER CONSUMPTION

230VAC INPUT , power consumption less than 0.5W

1.SPECIFICATION

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3.OUTPUT REQUIREMENT

3-1	DC OUTPUT VOLTAGE	+12 V
3-2	MINIMUM LOAD CURRENT	0 A
3-3	NOMINAL LOAD CURRENT	1.2A
3-4	NOMINAL OUTPUT POWER	14.4 W
3-5	OUTPUT REGULATION	+/-5 %
3-6	LINE REGULATION	+/-2 %
3-7	RIPPLE AND NOISE	120mVp-p maximum At 20 MHz, and output parallel with 0.1uF & 10uF capacitors to ground Temperature at 25℃, and nominal input voltage
3-8	AVERAGE EFFICIENCY	78.9% minimum At nominal input voltage and meet cec efficiency level: V
3-9	RISE TIME	100mS maximum at nominal input voltage
3-10	TURN-ON DELAY	2 Seconds maximum at nominal input voltage
3-11	PROTECTION	
	SHORT-CIRCUIT PROTECTION	Short circuit protection is to be included in the construction of the adaptor. The adaptor is designed to withstand continuous current of a short circuit on the output. The adaptor will be short circuit tolerant for an indefinite period.
3-12	REMARK	Unless otherwise specification output load Must set at CR mode.

4. MECHANICAL REQUIREMENT

4-1 DIMENSION

70 (L) * 29.8 (W) * 83.2 (H) mm maximum

4-2 WEIGHT

140 g maximum

4-3 INPUT PLUG TYPE

Wall-mount type, EU-pin, 2 Conductors, < Live, Neutral >

4-4 OUTPUT CORD

WIRE: 20AWG/2C,2468,1500mm

PLUG: JACK PLUG 5.5*2.1*12mm

1.SPECIFICATION

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5. ENVIRONMENTAL REQUIREMENT

5-1 COOLING

Cooling shall be with natural convection cooling

5-2 OPERATING TEMPERATURE

0 °C TO 40 °C

5-3 STORAGE TEMPERATURE

-20 °C TO +60 °C

5-4 OPERATING HUMIDITY

20 ~ 85 % RH. NON-CONDENSING

5-5 STORAGE HUMIDITY

5 ~ 95 % RH. NON-CONDENSING

5-6 VIBRATION TEST REQUIREMENT

(Non-operating, with packing) Reference to IEC. 68-2-6

Test conditions		Acceptance criteria
1.Frequency	5 ~ 500 Hz	Normal functional test should be satisfied after the test
2.Sweep	2houre. For each axis (X, Y, Z)	
3.Acceleration	0.6G (5~50 Hz, peak - peak), 1.5G (50~500 Hz, peak - peak)	
4.Displacement	0.4 mm (5~50 Hz)	

6. SAFETY REQUIREMENT

6-1 DIELECTRIC WITHSTANDING VOLTAGE TEST (HI-POT TEST)

Primary To Secondary: 3000VAC 10mA 1minute or 4242VDC 10mA 1minute

6-2 LEAKAGE CURRENT

0.25mA maximum, at nominal AC input voltage and frequency

6-3 SAFETY STANDARD

Designed to meet TUV-GS (EN60950-1)

6-4 EMI STANDARD

Designed to meet CE (EN55022)



1.SPECIFICATION

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7. RELIABILITY

7-1 MEAN TIME BETWEEN FAILURE (MTBF)

The power supply shall be designed and produced to have a mean time between failures (MTBF) of 50000 operating hours minimum conditions: 80% maximum load at 25°C, nominal input voltage.

Standard: MIL-HDBK-217F

2. RATING LABEL DRAWING

-- 1 / 1

FROM NO.:1		COMPUTER NO.:	
REV	ZONE	DESCRIPTION	DATE
			10/01/11
			XXR



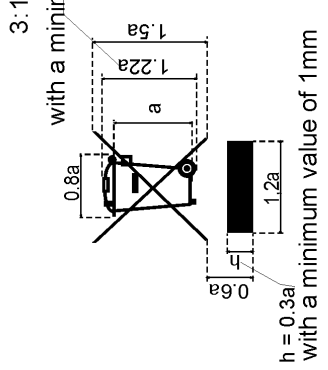
DVE® Switching Power Adapter
MODEL: DSA-15P-12 EU 120144
INPUT: 100-240V~ 50/60Hz 0.5A
OUTPUT: +12V = 1.2A

EFFICIENCY LEVEL: 1



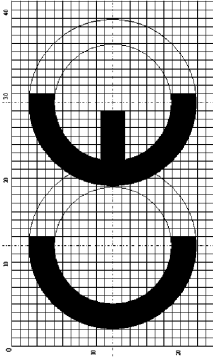
Made In China





3:1
with a minimum value of 4mm





16.3 +0/-0.2

33.3 +0/-0.2

35.8 +0/-0.2

13.8 +0/-0.2

2.5 +0.2/-0

1:1

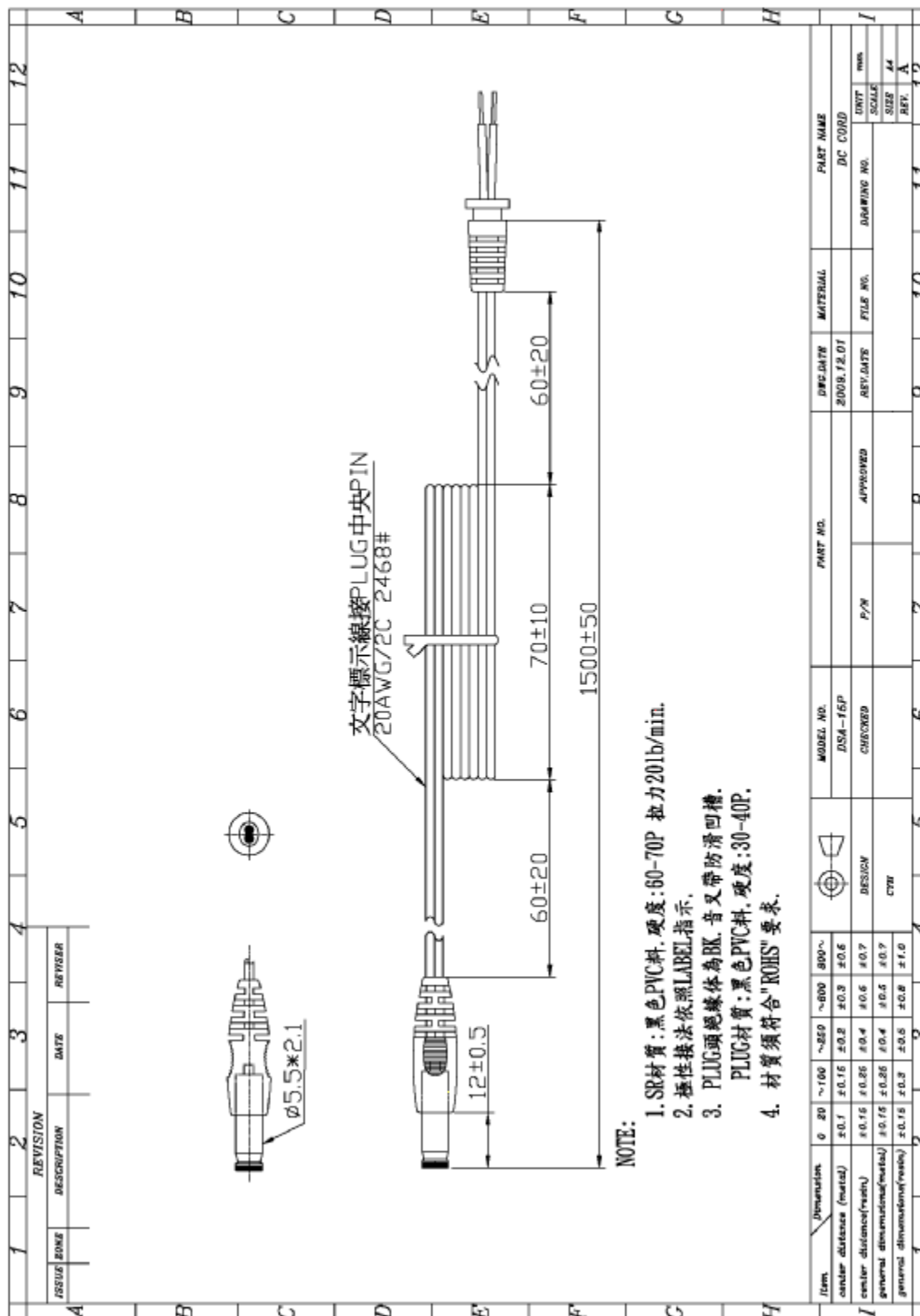
NOTE:

- 顏色: 銀底黑字
- 材質: 銀底黑字
- 處理: 永久背膠
- 須由UL, CSA合格廠商承製
- 儲存溫度: -20°C及+70°C之範圍
- 待業務確認安規等各項再行製作生產
- 回形及CE LOGO高度最小需達到5mm
- 禁止使用DVE所禁用之危害物質
- LABEL厚度為0.25+/-0.02mm

FM-336(V0)

3. DC OUTPUT CORD DRAWING

-- 1 / 1



4. PRODUCT OUTLINE DRAWING

-- 1 / 1

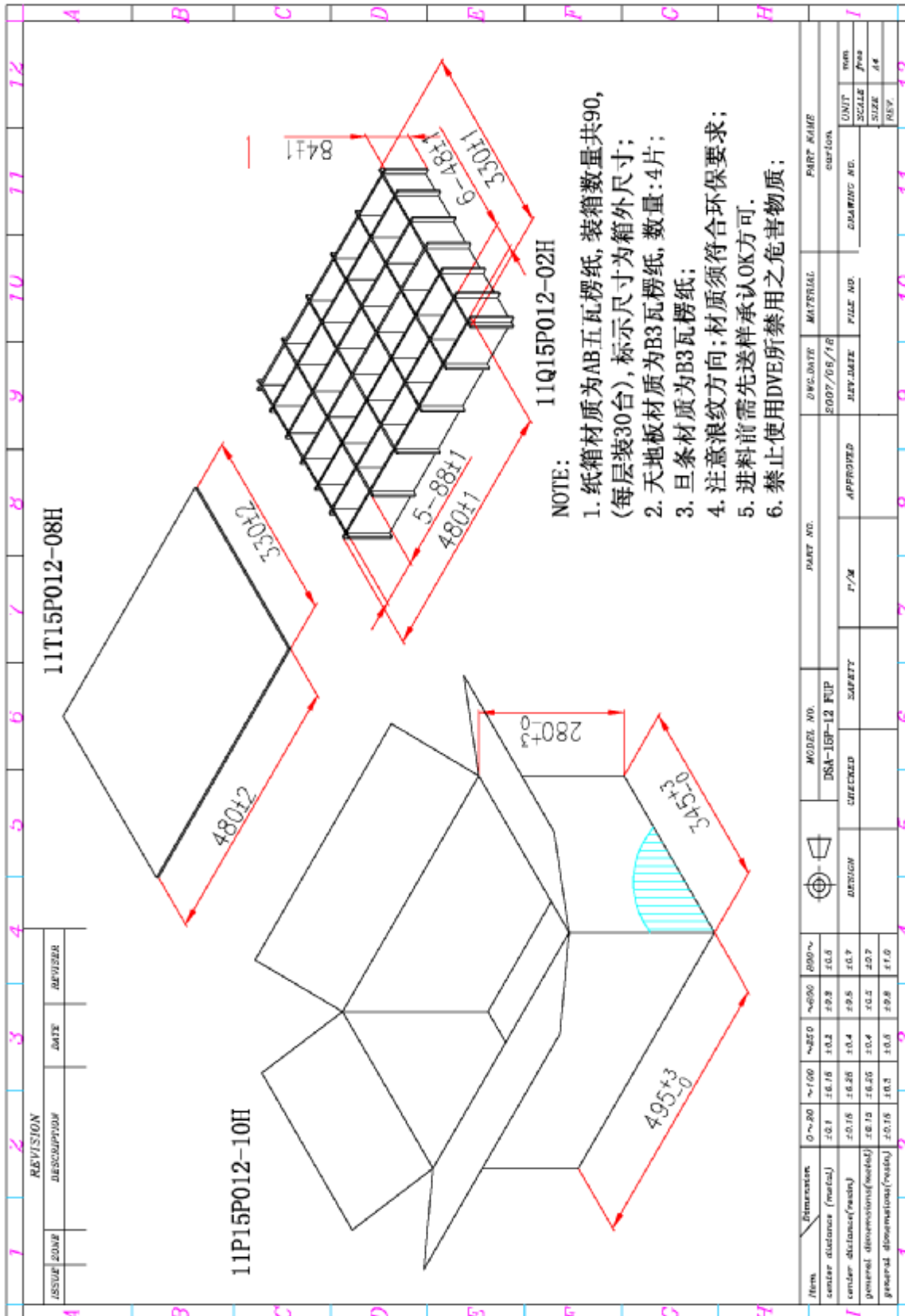
REVISION				PART NAME			
REV	DESCRIPTION	DATE	REVISOR	PART NAME			
1				PART NAME			
2				PART NAME			
3				PART NAME			
4				PART NAME			
5				PART NAME			
6				PART NAME			
7				PART NAME			
8				PART NAME			
9				PART NAME			
10				PART NAME			
11				PART NAME			
12				PART NAME			

82.2±1.0	28.8±1.0	69.0±1.0
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ITEM	DESCRIPTION	UNIT	QTY	PRICE	TOTAL
1	ITEM DESCRIPTION	UNIT	QTY	PRICE	TOTAL
2	ITEM DESCRIPTION	UNIT	QTY	PRICE	TOTAL
3	ITEM DESCRIPTION	UNIT	QTY	PRICE	TOTAL
4	ITEM DESCRIPTION	UNIT	QTY	PRICE	TOTAL
5	ITEM DESCRIPTION	UNIT	QTY	PRICE	TOTAL
6	ITEM DESCRIPTION	UNIT	QTY	PRICE	TOTAL
7	ITEM DESCRIPTION	UNIT	QTY	PRICE	TOTAL
8	ITEM DESCRIPTION	UNIT	QTY	PRICE	TOTAL
9	ITEM DESCRIPTION	UNIT	QTY	PRICE	TOTAL
10	ITEM DESCRIPTION	UNIT	QTY	PRICE	TOTAL
11	ITEM DESCRIPTION	UNIT	QTY	PRICE	TOTAL
12	ITEM DESCRIPTION	UNIT	QTY	PRICE	TOTAL

5.PACKING DRAWING

--1 / 2



5. PACKING DRAWING

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