



MODEL NO : 2AA012F      12.0V/1.0A (standard)  
ENGINEERING SPECIFICATION SHEET

**Purpose:** This specification document represents the design criteria of the product identified herein, for the approval of the designated recipient (customer). Prior to production and delivery of this product by CWT, the customer shall endorse its approval of this specification document, upon review of the detailed information provided herein. The customer's endorsement (approval) verifies that the product description is determined to be fully compliant to the customer's design requirements. If one or more samples are included with this specification, the customer's endorsement (approval) further verifies that the product has been tested by the customer, for which the product satisfactorily meets all aesthetic, mechanical, electrical, and operating requirements for its intended usage with the customer's suitable indoor equipment or applications.

**To Approve:** An authorized employee or agent of the customer shall endorse approval of this specification. Please sign & date this cover-page, and initial each subsequent page in the lower left corner to signify all sections have been read and found to be acceptable. A completed, original copy (signed, dated, initialed) of this specification must be returned to CWT to record the approved customer design. The customer shall keep one or more copies for its records. Upon receipt, CWT shall manufacture the product to the approved customer design. If design revisions are otherwise required, a revised specification and/or modified samples shall be provided by CWT for the endorsement (approval) by the customer.

CHANNEL WELL TECHNOLOGY (CWT)  
CWT KOREA

|                             |                        |        |
|-----------------------------|------------------------|--------|
| VERSION: UPDATED            | 2AAJ012F               | 12V/1A |
| Specification No.: 20210923 | 5.5x2.1x9.5(S.H)*1,200 |        |



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## SPEC. Revision History

|                        |                   |  |
|------------------------|-------------------|--|
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## 1 SCOPE

This document describes basic electrical characteristics and mechanical characteristic of 12W class II power adapter.

## 2 ELECTRICAL SPECIFICATION

### 2.1 INPUT REQUIREMENT

#### 2.1.1 INPUT VOLTAGE AND FREQUENCY RANGE

| Input Range | Minimum | Nominal | Maximum | Unit     |
|-------------|---------|---------|---------|----------|
|             | 90      | 100-240 | 264     | Vac, rms |
|             | 47      | 50 & 60 | 63      | Hz       |

#### 2.1.2 AC INRUSH CURRENT

##### Test Conditions:

1. Inrush current to be measured with bulk Caps discharged.
2. Ambient Temperature =25°C
3. The AC source to be a minimum 3KVA
4. AC input starting phase angle=90°
5. Vin=Vin(max),Frequency=Fin(min.)
6. Current to be measured using a non-saturating current probe or transformer.

| Nominal Output Power | Peak Inrush Current (I-peak) |
|----------------------|------------------------------|
| ≤ 12 Watt nominal    | ≤ 50A                        |

#### 2.1.3 INPUT CURRENT

| Input Voltage | Input Current (Iin) |
|---------------|---------------------|
| 90-264Vac     | ≤ 0.35A             |

#### 2.1.4 LEAKAGE CURRENT

| Input Voltage | Leakage Current |
|---------------|-----------------|
| 230Vac/50Hz   | ≤ 0.25mA        |

#### 2.1.5 INSULATION RESISTANCE

| between primary and secondary | Insulation Resistance |
|-------------------------------|-----------------------|
| 500Vdc                        | ≥ 50MΩ                |

|                        |                   |  |
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**2.1.6 LOW POWER CONSUMPTION**

| Vin         | Load | Power consumption      |
|-------------|------|------------------------|
| 230Vac/50Hz |      |                        |
| 115Vac/60Hz | 0A   | $\leq 0.075 \text{ W}$ |

**2.1.7 HI-POT TEST**

| Primary to Secondary   | Current            |
|------------------------|--------------------|
| 4242Vdc/3000Vac,60Secs | $\leq 10\text{mA}$ |

**2.2 INPUT PROTECTION**

**2.2.1 INPUT CURRENT PROTECTION**

A fuse shall be installed on the input line side near the input connector.

**2.3 OUTPUT REQUIREMENT**

**2.3.1 OUTPUT VOLTAGE AND CURRENT AND OUTPUT POWER**

Peak load for AC start up.

| Vout(nom) | Voltage Range | Current Range |           |           | Watt(Max) |
|-----------|---------------|---------------|-----------|-----------|-----------|
|           |               | Minimum Load  | Full load | Peak load |           |
| +12.0V    | $\pm 10\%$    | 0A            | 1.0A      | 1.2A      | 13.2W     |

**2.3.2 RIPPLE AND NOISE**

Measurements shall be made with an oscilloscope with minimum of 20MHz bandwidth. Output shall be bypassed at the connector with a  $0.1\mu\text{F}$  ceramic disk capacitor and a  $10\mu\text{F}$  electrolytic capacitor for general testing purpose.

| Output Voltage | Ripple & Noise(Vp-p) |
|----------------|----------------------|
| +12V           | $\leq 240\text{mV}$  |

**2.3.3 OVER VOLTAGE PROTECTION**

Test Conditions:

1. Vin=Vin(nominal)
2. No load.

|                         |                                |
|-------------------------|--------------------------------|
| Over voltage protection | $\leq 180\% \text{ Vout Max.}$ |
|-------------------------|--------------------------------|

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#### **2.3.4 OVER CURRENT PROTECTION**

Test Conditions:

1.  $V_{in}=V_{in}(\text{nominal})$ ; Frequency= $f_{in}(\text{nominal})$
2.  $I_{out}$  is ramped using a CC mode load from 0A until current fold back..

| Over current protection | Min  | Max  |
|-------------------------|------|------|
|                         | 120% | 400% |

#### **2.3.5 OVERSHOOT AND UNDERSHOOT**

|                          |          |
|--------------------------|----------|
| Overshoot and Undershoot | 10% Max. |
|--------------------------|----------|

#### **2.3.6 SHORT CIRCUIT PROTECTION**

Test Conditions:

1. Short is defined as a load resistance < 0.1 ohms.
2. A short circuit load is applied for 10 seconds.

Requirement:

1. At the end of the test cycle, the short is replaced with a load equal to  $I_{out}$  (max.). Output voltage must return to limits defined in section 2.3.1.
2. Output must recover automatically within 3 seconds when short is removed.
3. While the output is shorted, output current must not exceed  $I_{out}(\text{max}) \times 4$ .

### **2.4 PERFORMANCE REQUIREMENT**

#### **2.4.1 EFFICIENCY**

Meet: Level VI

|                           |             |
|---------------------------|-------------|
| Active average efficiency | 83.26% min. |
|---------------------------|-------------|

#### **2.4.2 TURN ON DELAY TIME**

Test Conditions:

1. CC mode load = 120%  $I_{out}(\text{max})$ .
2. Power adapter is connected to load before AC power is applied.

|                    |            |
|--------------------|------------|
| Turn on delay time | 3secs max. |
| Rise time          | 50ms max.  |

|                        |                   |  |
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#### **2.4.3 HOLD-UP TIME**

Test Conditions:

1. CC mode load =100% Iout(max) .
2. Vin 115V/60Hz & 230Vac/50Hz.

| Hold up time | Vin 115Vac/60Hz | Vin 230Vac/50Hz |
|--------------|-----------------|-----------------|
|              | 8ms min.        | 16ms min.       |

#### **2.4.4 DYNAMIC LOAD (LOAD TRANSIENT)**

Test Conditions:

1. CC Load cycling between 100% Iout(max) and 50% Iout(max.).
2. Cycling frequency is 120Hz
3. Load slew rate is 250mA/uS ±5%.

|         |             |
|---------|-------------|
| Dynamic | ±10% (Vout) |
|---------|-------------|

### **3 ENVIRONMENTAL SPECIFICATION**

#### **3.1 TEMPERATURE**

| PARAMETER    | OPERATING | NON-OPERATING |
|--------------|-----------|---------------|
| Ambient temp | 0 to 40°C | -40 to 70°C   |

#### **3.2 HUMIDITY**

| PARAMETER | OPERATING            | NON-OPERATING        |
|-----------|----------------------|----------------------|
| Humidity  | 5-95% non condensing | 0-95% non condensing |

#### **3.3 VIBRATION AND SHOCK**

| PARAMETER | OPERATING               | NON-OPERATING                             |
|-----------|-------------------------|---|
| VIBRATION | 0.25G RMS, 1Hour        | MIL-STD-810D, method 514 and procedure X1 |
| SHOCK     | 0.5G RMS, 5 repetitions | 30G 1/2 sine, 30mS, 6sides                |

#### **3.4 ALTITUDE**

| PARAMETER | OPERATING          | NON-OPERATING        |
|-----------|--------------------|----------------------|
| Altitude  | Sea level to 3100M | Sea level to 12,300M |

|                        |                   |  |
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### 3.5 CALCULATED MEAN TIME BETWEEN FAILURES (MTBF)

Test Conditions:

1. Operational temperature=25°C
2. Altitude=3100m
3. Confidence level =90%
4. Predictive standard=MIL-HDBK-217F
5. Load current is =0.8\*Iout(max)
6. Vin(nom)

|      |                    |
|------|--------------------|
| MTBF | 100,000 hours min. |
|------|--------------------|

### 3.6 DROP TEST

| PARAMETER | OPERATING | NON-OPERATING                    |
|-----------|-----------|----------------------------------|
| Drop test | N/A       | IEC-60068-2-32 ED, 100cm UNBOXED |

## 4 APPLICATION STANDARD & RELATED SPECIFICATION

### 4.1 STANDARD & SAFETY CERTIFICATION

#### 4.1.1 SAFETY STANDARD

| COUNTRY CODE | STANDARD         | TEST REPORTS   |
|--------------|------------------|----------------|
| NA           | UL60950          | UL60950        |
| GE           | EN60950-1:2006   | CB,LVD         |
| JP           | J60950           | CB,PSE         |
| AU           | AS/NZS 60950-1   | CB             |
| UK           | EN 60950-1:2006  | CB,LVD         |
| KO           | IEC60950-1:2006  | CB             |
| PR           | IEC 60950-1:2006 | CB,CCC         |
| BZ           | IEC 60950-1:2006 | CB             |
| NJ           | J60950,UL60950   | CB,PSE,UL60950 |

#### 4.1.2 EMI

FCC CFR 47 Part 15, Subpart J, Class B, resistive load.

EN55022/CISPR 22, Class B , resistive load.

Criteria: Class B emissions, resistive load.

|                           | QP and Average (Conducted) | QP (Radiated)      |
|---------------------------|----------------------------|--------------------|
| For Qualification samples | Minimum 6dB margin         | Minimum 6dB margin |
| For Mass Production       | Minimum 3dB margin         | Minimum 3dB margin |

|                        |                   |  |
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#### **4.1.3 EMS**

The Supplier must confirm compliance to the following standards:

EN55024: Immunity

EN61000-3-2: Harmonic Current Emission.

EN61000-3-3: Voltage fluctuations and Flicker.

EN61000-4-2: Electrostatic Discharge, level 4:  $\geq 8\text{KV}$ , contact  $\geq 15\text{KV}$  air discharge.

EN61000-4-3: Radiated Electromagnetic field,  $3\text{V/m}$ .

EN61000-4-4: Electrical Fast Transient,  $\geq 2\text{KV}$  differential,  $\geq 4\text{kv}$  common mode. Criterion B.

EN61000-4-5: Surge  $\geq 4\text{KV}$  common mode (Class I only),  $\geq 2\text{KV}$  differential mode. Criterion B.

EN61000-4-6: Conducted Immunity,  $3\text{A/m}$

EN61000-4-11: Voltage dips and interruption.

#### **4.1.4 LPS**

Meet IEC60950-1

#### **4.1.5 ENVIRONMENT STANDARDS**

RoHS & REACH regulation

#### **4.1.6 ENERGY SAVING**

EuP & CEC standards Level VI

### **5 MECHANICAL**

#### **5.1 INPUT CONNECTOR AND OUTPUT CABLE**

##### **5.1.1 INPUT CONNECTOR**

Wall mount.

##### **5.1.2 OUTPUT JACK AND CABLE**

See mechanical drawing

#### **5.2 AC ADAPTER EXTERNAL DIMENSION**

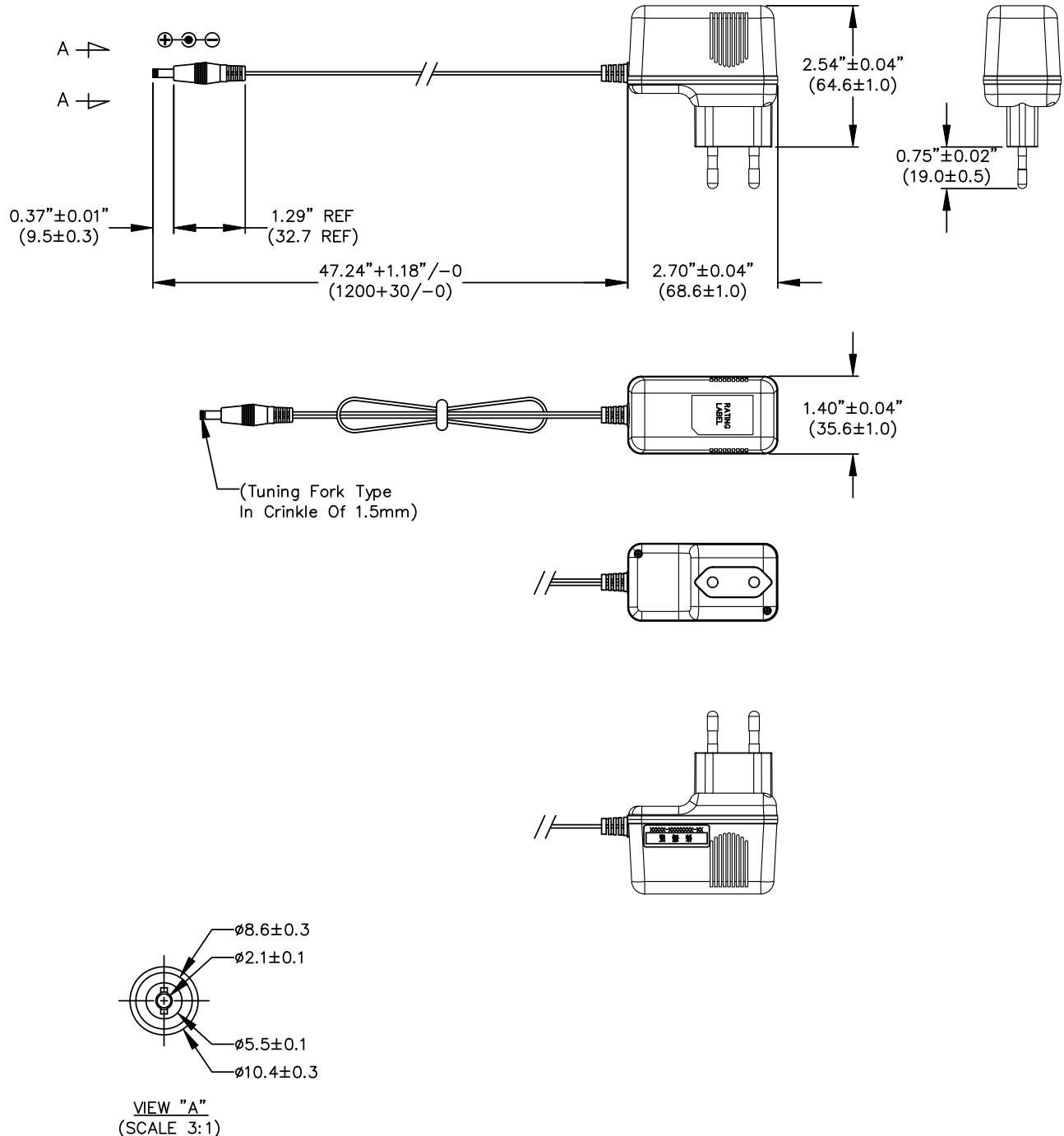
See mechanical drawing

#### **5.3 LABEL DRAWING**

See mechanical drawing

|                        |                   |  |
|------------------------|-------------------|--|
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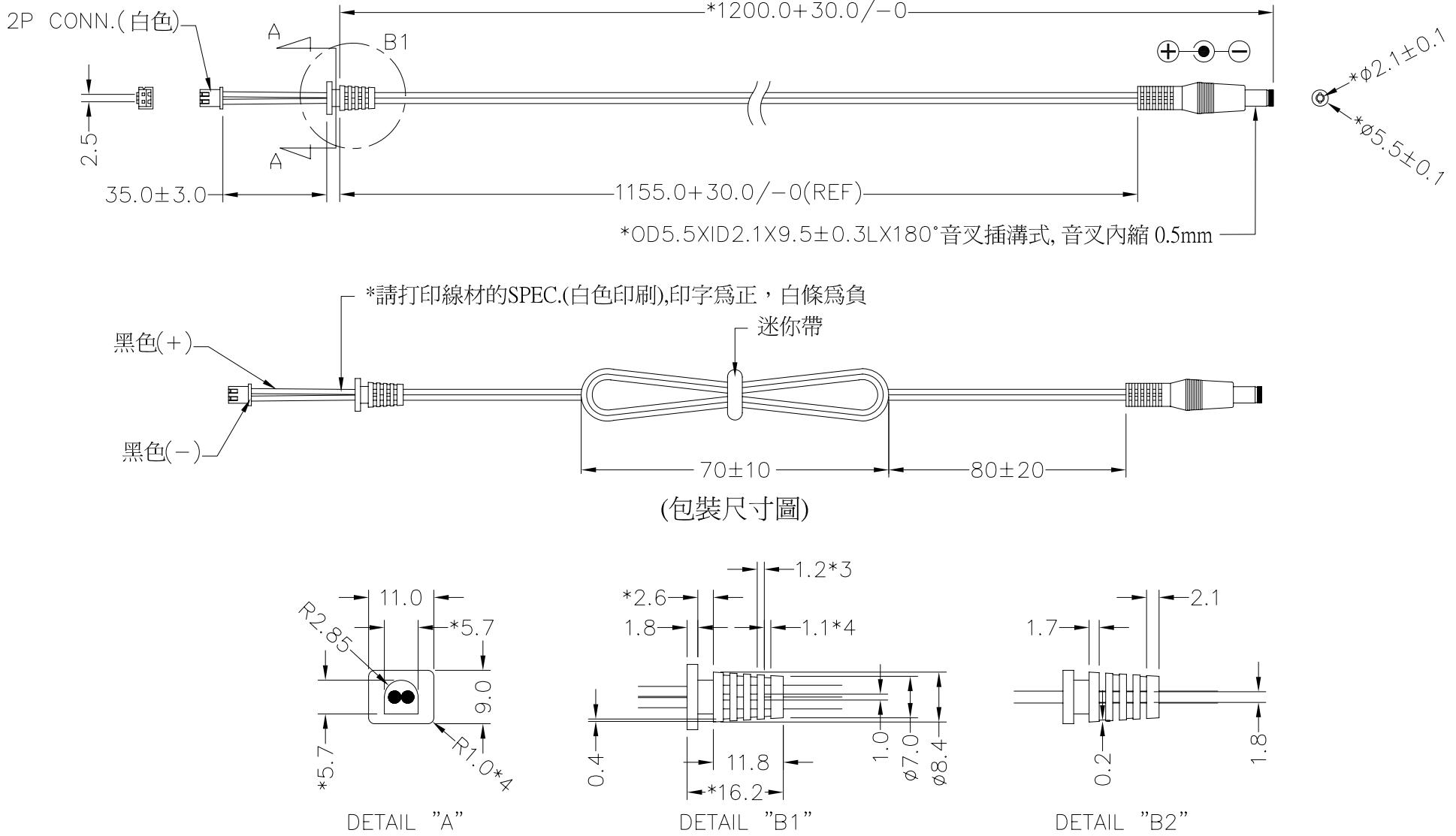
| 版本  | 修訂內容        | 修訂者   | 日期         |
|-----|-------------|-------|------------|
| X01 | NEW DRAWING | Lilac | 2016-01-28 |
|     |             |       |            |



NOTES:

- CASE & CABLE COLOR : BLACK
- CABLE SPEC.: UL2468 24AWG 80°C 300V

|  |                      |                    |                         |   |              |
|--|----------------------|--------------------|-------------------------|---|--------------|
| <b>CWT Channel Well Technology CO., LTD.</b> | APPROVED<br>ANDY LEE | DATE<br>2016-01-28 | DRAWING NO.             | UNIT<br>INCHES<br>(MM)                      | REV.<br>X01  |
| TITLE<br>Switching Power Supply              | DESIGNED<br>ALEX LEE | DRAWING<br>LILAC   | MODEL NO.<br>2AAJ-F0001 | TOLERANCES:<br>.XX = ± .10<br>.XXX = ± .010 | SHEET<br>1/1 |



## NOTES:

1. WIRE SPEC.: UL 2468 SINGLE CONDUCTOR SHIELDED WIRE 24AWG 2芯 80°C 300V.
  2. THE WIRE COLOR IS " BLACK ".
  3. 標示 "\*" 為重點檢查尺寸.
  4. 2P CONN : WST P2-I25002 or EQU (白色)

環保材料標準：

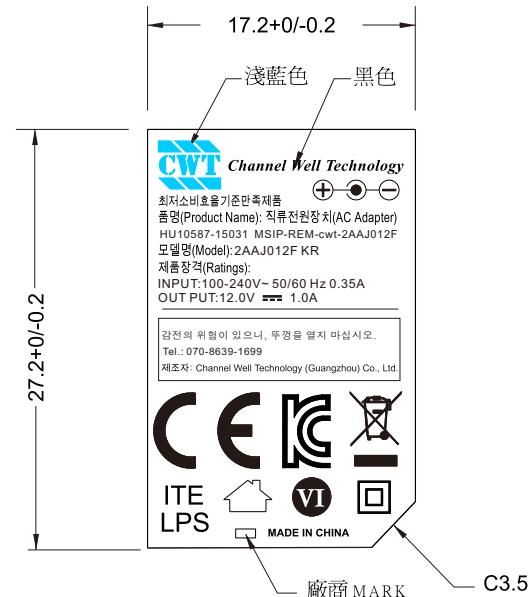
| No | 有害物質名稱                  | 含量標準       | SHEET METAL TOLERANCE<br>(UNLESS OTHERWISE SPECIFIED) |          |         |         | D01              | REV.             | 新製               |                        |                    |         |
|----|-------------------------|------------|---|----------|---------|---------|------------------|------------------|------------------|------------------------|--------------------|---------|
|    |                         |            | DIMENSION   | PIERCING | BENDING | ANGULAR |                  |                  | DESCRIPTION      |                        |                    |         |
| 1  | 鎘 (Cd)                  | <75ppm     |   |          |         |         |                  |                  |                  |                        |                    |         |
| 2  | 鉛 (Pb)                  | <800ppm    |   |          |         |         |                  |                  |                  |                        |                    |         |
| 3  | 汞 (Hg)                  | <800ppm    | X < 8   | ±0.1     | ±0.15   | ±0.3°   |                  |                  | UNIT: mm         | MODEL NO.:             | 2AAJ012F           |         |
| 4  | 六價鉻 (Cr <sup>6+</sup> ) | <800ppm    | 8 ≤ X < 25  | ±0.1     | ±0.2    | ±0.5°   |                  |                  | MATERIAL         | PART NO.:              | B18-B18612A-MD00   |         |
| 5  | 多溴聯苯 (PBB)              | <800ppm    | 25 ≤ X < 100  | ±0.15    | ±0.25   | ±0.5°   | APPROVED         | CHECKED          | *****            | DRAWING NO.:           |                    |         |
| 6  | 多溴二苯醚 (PBDE)            | <800ppm    | 100 ≤ X < 300   | ±0.2     | ±0.3    | ±1°     | Andy Lee         | Alex Lee         | Lilac            | DESIGNED               | 2468-24-1155-01-16 |         |
| 7  | 鎘, 鉛, 六價鉻, (包裝材料)       | 總含量<100ppm | 300 < X < 800   | ±0.3     | ±0.5    | ±1.5°   | DATE: 2014-08-29 | DATE: 2014-08-29 | DATE: 2014-08-29 | SCALE:                 |                    | SHEET M |
|    |                         |            |   |          |         |         |                  |                  |                  | THIRD ANGLE PROJECTION | 1 OF 1             | A4      |

A



1:1

B



C

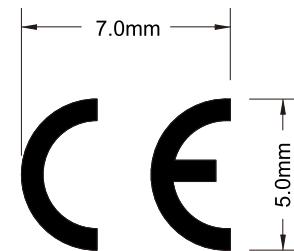
備註:

1. MATERIAL : 50#消銀龍+OPP (UL安規) +背膠
2. 表面處理 : +OPP
3. COLOR : 銀底, 黑字, CWT LOGO 為淺藍色.
4. 總厚度 : 0.12~0.15mm
5. 高溫測試 : 需耐溫 80度C 2 小時, 不可翹皮或皺摺.
6. 安規標誌請按安規標準來製作.

D

環保材料標準:

| No | 有害物質名稱           | 含量標準          | SHEET METAL TOLERANCE<br>(UNLESS OTHERWISE SPECIFIED) |          |         |         | D01            | 新製     | DESCRIPTION    |                |                  |
|----|------------------|---------------|---|----------|---------|---------|----------------|--------|----------------|----------------|------------------|
|    |                  |               | DIMENSION   | PIERCING | BENDING | ANGULAR |                |        |                |                |                  |
| 1  | 銻 (Cd)           | < 75 ppm      |   |          |         |         |                |        | UNIT: mm       | MODEL NO.:     | 2AAJ012F         |
| 2  | 鉛 (Pb)           | < 800 ppm     |   |          |         |         |                |        | MATERIAL       | PART NO.:      | G35-D017981-P100 |
| 3  | 汞 (Hg)           | < 800 ppm     | X < 8   | ± 0.1    | ± 0.15  | ± 0.3°  |                |        |                | DRAWING NO.:   |                  |
| 4  | 六價鉻 (Cr)         | < 800 ppm     | 8 ≤ X < 20  | ± 0.1    | ± 0.2   | ± 0.5°  |                |        |                |                |                  |
| 5  | 多溴聯苯 (PBB)       | < 800 ppm     | 25 ≤ X < 100  | ± 0.15   | ± 0.25  | ± 0.5°  | APPROVED       | SAFETY | CHECKED        | DESIGNED       |                  |
| 6  | 多溴二苯醚 (PBDE)     | < 800 ppm     | 100 ≤ X < 300   | ± 0.2    | ± 0.3   | ± 1°    | zy.huang       |        | zy.huang       | yl.wang        | SCALE:           |
| 7  | 錫,鉛,汞,六價鉻,(包裝材料) | 總含量 < 100 ppm | 300 ≤ X < 800   | ± 0.3    | ± 0.5   | ± 1.5°  | DATE:Dec.07.15 | DATE:  | DATE:Dec.07.15 | DATE:Dec.07.15 | SHEET            |
|    |                  |               |   |          |         |         |                |        |                |                | M/<br>A4 L       |
|    |                  |               |   |          |         |         |                |        |                | 1 OF 1         |                  |



MIN. DIMENSIONS OF MARKS  
ONLABEL

A

B



### 工作要點:

- C 1. 材質:網格底50#啞白PET(厚度:0.1~0.15mm)
- 2. 印刷必須清晰可見,不能有斷線,模糊不清等不良
- 3. 貼紙的印刷油墨,紙張材質及  
背膠覆膜都必須符合RoHS要求
- 4. 背膠必須耐溫80°C不會翹起
- 5. 條碼類型:128碼,條碼編碼為固定碼.
- 6. 尺寸:25\*9mm(公差:+/-0.3)
- 7. 條形碼及文字居中對齊.

D

Material standard of environmental protection:

| No | Hazardous Substances      | Content Standards |
|----|---------------------------|-------------------|
| 1  | 錫(Cd)                     | <56 ppm           |
| 2  | 鉛(Pb)                     | <700 ppm          |
| 3  | 汞(Hg)                     | <700 ppm          |
| 4  | 六價鉻(Cr <sup>6+</sup> )    | <700 ppm          |
| 5  | 多溴聯苯(PBB)                 | <700 ppm          |
| 6  | 多溴二苯醚(PBDE)               | <700 ppm          |
| 7  | 鄰苯二甲酸二(2-乙基己基)酯(DOP)      | <700 ppm          |
| 8  | 鄰苯二甲酸丁苄酯(BBP)             | <700 ppm          |
| 9  | 鄰苯二甲酸二丁酯(DIBP)            | <700 ppm          |
| 10 | 鄰苯二甲酸二異丁酯(DOP)            | <700 ppm          |
| 11 | 包裝材料(Packaging materials) | 總含量 < 100 ppm     |
| 12 | 多環芳香族化合物(PAHs)            | NA                |

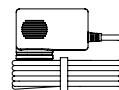
SHEET METAL TOLERANCE  
(UNLESS OTHERWISE SPECIFIED)

| DIMENSION     | PIERCING | BENDING | ANGULAR |
|---------------|----------|---------|---------|
| X < 8         | ± 0.1    | ± 0.15  | ± 0.3°  |
| 8 ≤ X < 20    | ± 0.1    | ± 0.2   | ± 0.5°  |
| 25 ≤ X < 100  | ± 0.15   | ± 0.25  | ± 0.5°  |
| 100 ≤ X < 300 | ± 0.2    | ± 0.3   | ± 1°    |
| 300 ≤ X < 800 | ± 0.3    | ± 0.5   | ± 1.5°  |

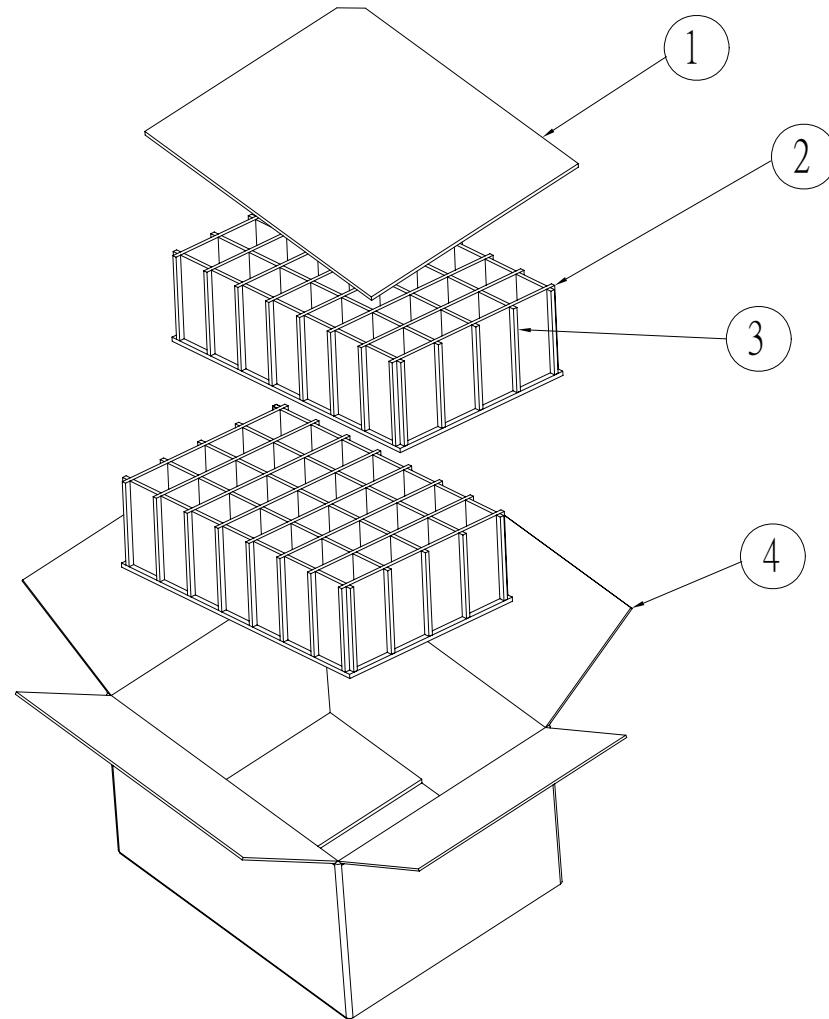
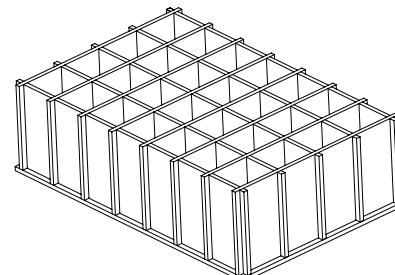
|   |                                  |        |         |
|---|----------------------------------|--------|---------|
| D02   | 20191015 管典锋, 增加客户型号文字           |        |         |
| D01   |                                  |        |         |
| REV.  |                                  |        |         |
|  CWT | Channel Well Technology Co.,Ltd. |        |         |
| UNIT: mm  | MODEL NO.: 宇视专用条码                |        |         |
| MATERIAL  | PART NO.: G35-DF00432-P200       |        |         |
| DRAWING NO.:  |                                  |        |         |
| DESIGNED  | APPROVED                         | SAFETY | CHECKED |
| SCALE:  |                                  |        |         |
| SHEET   |                                  |        |         |
| M   | 1 OF 1                           | A4     | L       |

1 | 2 | 3 | 4 | 5 | 6

A  
STEP1: 將成品及線材整理如下圖



B  
STEP2: 將成品如圖般放入格板內



1.組件:

1.1.: 平卡:538\*353mm

用量:3PCS

1.2.: 五刀卡:353\*114mm

用量:16PCS

1.3.: 八刀卡:538\*114mm

用量:10PCS

1.4.: 外箱:

用量:1PCS

外箱尺寸 550\*365\*270mm

Q'TY.: 56 PCS

D  
環保材料標準:

| No | 有害物質名稱                  | 含量標準       | SHEET METAL TOLERANCE<br>(UNLESS OTHERWISE SPECIFIED) |          |         |         | 0.1            | REV.           | DESCRIPTION    |                        |                       |
|----|-------------------------|------------|---|----------|---------|---------|----------------|----------------|----------------|------------------------|-----------------------|
| 1  | 鉻 (Cd)                  | <75ppm     |   |          |         |         |                |                |                |                        |                       |
| 2  | 鉛 (Pb)                  | <800ppm    | DIMENSION   | PIERCING | BENDING | ANGULAR |                |                | UNIT: mm       | MODEL NO.: 2AAJ        |                       |
| 3  | 汞 (Hg)                  | <800ppm    | X < 8   | ±0.1     | ±0.15   | ±0.3°   |                |                | MATERIAL       | PART NO.:              |                       |
| 4  | 六價鉻 (Cr <sup>6+</sup> ) | <800ppm    | 8 ≤ X < 25  | ±0.1     | ±0.2    | ±0.5°   |                |                | *****          | DRAWING NO.:           |                       |
| 5  | 多溴聯苯 (PBB)              | <800ppm    | 25 ≤ X < 100  | ±0.15    | ±0.25   | ±0.5°   | APPROVED       | CHECKED        | DESIGNED       |                        | 550-365-270-01        |
| 6  | 多溴二苯醚 (PBDE)            | <800ppm    | 100 ≤ X < 300   | ±0.2     | ±0.3    | ±1°     | g.liu          | l.wang         | m.zhong        | SCALE:                 |                       |
| 7  | 鋸, 鉛, 汞, 六價鉻, (包裝材料)    | 總含量<100ppm | 300 ≤ X < 800   | ±0.3     | ±0.5    | ±1.5°   | DATE: 14-06-14 | DATE: 14-06-14 | DATE: 14-06-14 | THIRD ANGLE PROJECTION | SHEET M/A4L<br>1 OF 1 |

**CWT 僑威科技**