

DATE: 2013-8-20 (YY/MM/DD)

Customer :

## APPROVAL SHEET

PRODUCT: AC ADAPTOR(RoHS Compliant)

MODEL: APM305-0510

PART NO. ST-0003

V: A1

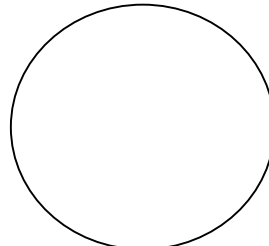
Receiver's stamp or signature

PLEASE APPROVE & RETURN BEFORE 2013-9-3

OR WE WOULD REGARD IT BEEN CONFIRMED.

| RESPONSIBLE | APPROVED | ISSUED   |
|-------------|----------|----------|
|             |          | nishuang |

ISSUES STAMP



### Revised History

| NO. | Revised Date | Description | Approved | Issued |
|-----|--------------|-------------|----------|--------|
|     |              |             |          |        |
|     |              |             |          |        |
|     |              |             |          |        |
|     |              |             |          |        |



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|                                                                                                                                                                                                                                                                               |                    |                                       |                  |                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------|------------------|----------------|
| <b>Anthin</b>                                                                                                                                                                                                                                                                 | <b>DESCRIPTION</b> | <b>SWITCHING POWER<br/>AC ADAPTER</b> | <b>SHEET NO.</b> | <b>1 OF 4</b>  |
|                                                                                                                                                                                                                                                                               |                    |                                       | <b>VER:</b>      | <b>A1</b>      |
|                                                                                                                                                                                                                                                                               | <b>MODEL NO.</b>   | <b>APM305-0510</b>                    | <b>PART NO.</b>  | <b>ST-0003</b> |
| <div>1.INPUT REQUIREMENT</div> <div>2.OUTPUT SPECIFICATION</div> <div>3.MECHANICAL</div> <div>4.RELIABILITY</div> <div>5.ENVIRONMENT</div> <div>6.OUTLOOKING</div> <div>7.SAFETY</div> <div>8.QC CHECK</div> <div>9.DIMENSION</div> <div>10.LABEL</div> <div>11.PACKING</div> |                    |                                       |                  |                |

|               |                    |                                       |                  |                |
|---------------|--------------------|---------------------------------------|------------------|----------------|
| <b>Anthin</b> | <b>DESCRIPTION</b> | <b>SWITCHING POWER<br/>AC ADAPTER</b> | <b>SHEET NO.</b> | <b>2 OF 4</b>  |
|               |                    |                                       | <b>VER:</b>      | <b>A1</b>      |
|               | <b>MODEL NO.</b>   | <b>APM305-0510</b>                    | <b>PART NO.</b>  | <b>ST-0003</b> |

## 1.INPUT REQUIREMENT

| ITEM                    | SPECIFICATION                                     | MIN    | TYP.          | MAX    |
|-------------------------|---------------------------------------------------|--------|---------------|--------|
| NORMAL AC INPUT VOLTAGE | SINGLE PHASE                                      | 100Vac | 110Vac/220Vac | 240Vac |
| AC INPUT VOLTAGE RANGE  | SINGLE PHASE                                      | 90Vac  | 110Vac/220Vac | 264Vac |
| AC INPUT FREQUENCY      | SINGLE PHASE                                      | 47Hz   | 50/60Hz       | 63Hz   |
| AC INPUT CURRENT        | TYPICAL INPUT VOLTAGE& OUTPUT AT FULL LOAD.       |        |               | 150mA  |
| AC INRUSH CURRENT       | TYPICAL INPUT VOLTAGE& OUTPUT AT FULL LOAD , 25℃. |        |               | 30A    |
| EFFICIENCY              | TYPICAL INPUT VOLTAGE& OUTPUT AT FULL LOAD        | 65%    |               |        |

## 2.OUTPUT SPECIFICATION

| ITEM                     | SPECIFICATION                                                 | MIN   | TYP. | MAX   |
|--------------------------|---------------------------------------------------------------|-------|------|-------|
| NORMAL DC OUTPUT VOLTAGE |                                                               |       | 5Vdc |       |
| DC OUTPUT VOLTAGE RANGE  | TYPICAL OUTPUT VOLTAGE ±5%                                    | 4.75V |      | 5.25V |
| LOAD CURRENT RANGE       |                                                               | 0A    |      | 1A    |
| PEAK LOAD CURRENT        | TIME<60S                                                      |       |      | 1.3A  |
| RIPPLE                   | TYPICAL INPUT VOLTAGE , TYPICAL LOAD CURRENT , 25℃            |       |      | 100mV |
| HOLD-UP TIME             | AT TYPICAL INPUT VOLTAGE AND FULL LOAD                        | 10mS  |      |       |
| TURN-ON DELAY            | TYPICAL INPUT VOLTAGE AND TUP LOAD CURRENT                    |       |      | 1S    |
| OVER CURRENT PROTECTION  | AUTO RECOVERY                                                 |       |      |       |
| SHORT CIRCUIT PROTECTRON | THE ADAPTER SHALL NOT DAMAGE BY SHORT THE DC OUTPUT TO GROUND |       |      |       |
| OVER VOLTAGE PROTECTION  |                                                               |       | 6V   | 7.5V  |

## \*TEST MEASURES



C1: 0.1uF CERAMICS CAPACITOR  
C2: 10uF 50V ALUMINUM CAPACITOR

|        |             |                               |           |         |
|--------|-------------|-------------------------------|-----------|---------|
| Anthin | DESCRIPTION | SWITCHING POWER<br>AC ADAPTER | SHEET NO. | 3 OF 4  |
|        |             |                               | VER:      | A1      |
|        | MODEL NO.   | APM305-0510                   | PART NO.  | ST-0003 |

### 3.MECHANICAL

| ITEM         | SPECIFICATION OR TEST CONDITION                                                                                                                                                                                                                                                    | ACCEPTANCE CRITERIA                                                             |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| BENDING TEST | NORMAL TEMPERATURE<br>THE CORD SHALL WITHSTAND WEIGHT OF 200g, SWINGING FROM LEFT TO RIGHT AT AN ANGLE OF 60 DEG. 1000CYCLE TIMES MIN.<br>S/R SHALL WITHSTAND WEIGHT OF 1N. SWINGING FROM LEFT TO RIGHT AT AN ANGLE OF 60DEG. 1000CYCLE TIMES MIN.<br>BENDING SPEED 40CYCLE/MINUTE | NO SHORT CIRCUIT<br>NO BREAKAGE OF THE CORD                                     |
| VIBRATION    | FREQUENCY RANGE:10~55Hz<br>AMPLITUDE:1.5mm<br>ACCELERATION: 1G<br>SWEEP 1 MINUTE FOR X,Y,Z,AXIS EACH                                                                                                                                                                               | THERE SHALL BENO<br>ABNORMALITY ON THE<br>APPEARANCE STRUCTURE<br>AND OPERATING |

### 4.RELIABILITY

| ITEM                                | TEST CONDITION                                                                        | ACCEPTANCE CRITERIA                |
|-------------------------------------|---------------------------------------------------------------------------------------|------------------------------------|
| TEMPERATURE UP WITH<br>TYPICAL LOAD | TEST THE SURFACE OF THE CASE WITH TYPICAL<br>LOAD OUTPUT AND TYPICAL AC INPUT 50/60Hz | TEMPERATURE UP UNDER<br>35 DEGREES |
| HI-POT TEST                         | INPUT TO OUTPUT<br>3000Vac 3 SECONDS 5mA                                              | NO DAMAGE                          |
| INSULATION RESISTANCE               | INPUT TO OUTPUT,DC 500V                                                               | >100MΩ                             |
| MTBF                                | TYPICAL INPUT&FULL LOAD , 25℃                                                         | 50000 HOURS                        |
| LIFE                                | TYPICAL INPUT&FULL LOAD, 40℃<br>TYPICAL INPUT&FULL LOAD, 25℃                          | 1YEARS ABOVE<br>2YEARS ABOVE       |
| BURN-IN                             | AT 30℃(±10℃),NORMAL INPUT VOLTAGE                                                     | 2~4 HOURS                          |

### 5.ENVIRONMENT

| ITEM                  | SPECIFICATION OR TEST CONDITION | min. | typ. | max.  |
|-----------------------|---------------------------------|------|------|-------|
| OPERATING TEMPERATURE |                                 | 0℃   |      | 40℃   |
| STORAGE TEMPERATURE   |                                 | -20℃ |      | 85℃   |
| OPERATING HUMIDITY    | NON-CONDENSING                  | 5%RH |      | 90%RH |
| STORAGE HUMIDITY      | NON-CONDENSING                  | 5%RH |      | 90%RH |

|        |             |                 |           |         |
|--------|-------------|-----------------|-----------|---------|
| Anthin | DESCRIPTION | SWITCHING POWER | SHEET NO. | 4 OF 4  |
|        |             | AC ADAPTER      | VER:      | A1      |
|        | MODEL NO.   | APM305-0510     | PART NO.  | ST-0003 |

6.OUTLOOKING

DIMENSION

WEIGHT

AC INPUT TYPE

DC OUTPUT TYPE

:50(L)X34(W)X18.7(H)mm

:ABOUT 30g

:WALL MOUNT

: USB 4PIN 母座

DC OUTPUT CABLE

INDICATION

CASE MATERIAL

PCB MATERIAL

:LABEL

:94V-0 雾面 BLACK

:94V-0

ROHS COMPLIANT

ROHS COMPLIANT

ROHS COMPLIANT

7.SAFETY

EMI

8.QC CHECK

ALL OF THE QUANTITY SHALL BE CHECKED BEFORE SHIPMENT,CHECK ITEM AS BELOW:

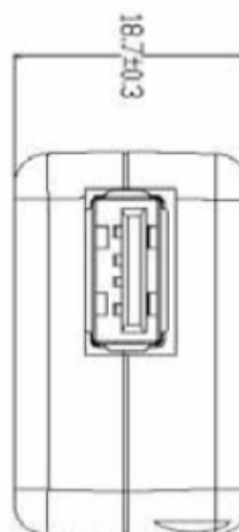
(1)DC PLUG POLE CHECK

(2)OCP FUNCTION CHECK

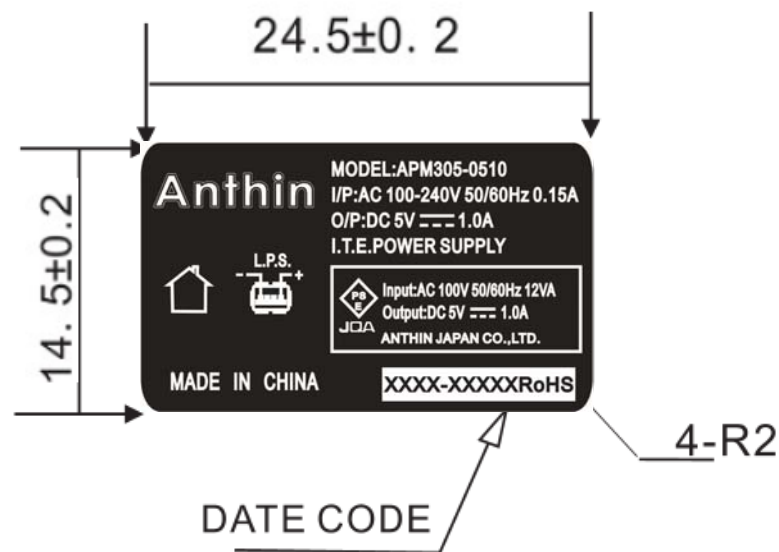
(3)DC OUTPUT VOLTAGE CHECK

(4)HIPOT&INSULATION CHECK

(5)OUTLOOKING CHECK



|           |       |       |       |                                                                                     |          |      |  |    |      |  |         |    |  |
|-----------|-------|-------|-------|-------------------------------------------------------------------------------------|----------|------|--|----|------|--|---------|----|--|
| TOLERANCE |       |       |       |                                                                                     | FINISH   |      |  |    |      |  |         |    |  |
| L<4       | ±0.05 | ±0.08 | ±0.1  | ±0.2                                                                                |          |      |  |    |      |  |         |    |  |
| 4<L<20    | ±0.08 | ±0.1  | ±0.2  | ±0.3                                                                                |          |      |  |    |      |  |         |    |  |
| 20<L<50   | ±0.1  | ±0.15 | ±0.3  | ±0.4                                                                                |          |      |  |    |      |  |         |    |  |
| 50<L<200  | ±0.15 | ±0.25 | ±0.4  | ±0.6                                                                                |          |      |  |    |      |  |         |    |  |
| 200<L     | ±0.2  | ±0.4  | ±0.5  | ±0.8                                                                                | MATERIAL | REV. |  | A1 | NAME |  |         |    |  |
| DEG.      |       | CHKD. | APPD. |  |          |      |  |    |      |  | UNIT    | mm |  |
| Anni      |       |       | SCALE | REF.                                                                                |          |      |  |    |      |  |         |    |  |
|           |       |       |       | DWG NO.                                                                             |          |      |  |    |      |  |         |    |  |
|           |       |       |       | PART NO.                                                                            |          |      |  |    |      |  | ST-0003 |    |  |



XXXX-XXXXXRoHS

RoHS COMPLIANT

流水号 (Number)

月 (Month)

年 (Year)

### NOTE:

- 1.SILVER WORD(银字) ON BLACK BASE(黑底).
- 2.MATERIAL:PVC + MYLAR FILM+雾面.
- 3.ROHS COMPLIANT.

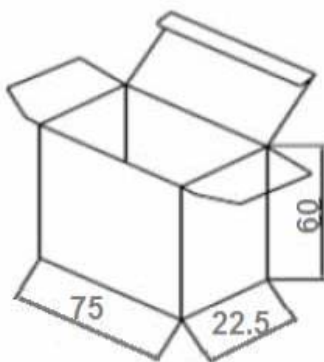
| TOLERANCE    |       |       |                                                                                     |     | FINISH   |      |  |  | NAME: |    | LABEL    |         |
|--------------|-------|-------|-------------------------------------------------------------------------------------|-----|----------|------|--|--|-------|----|----------|---------|
| L ≤ 4        | 0.05  | 0.08  | 0.1                                                                                 | 0.2 |          |      |  |  |       |    |          |         |
| 4 < L ≤ 20   | 0.08  | 0.1   | 0.2                                                                                 | 0.3 | MATERIAL | QTY. |  |  | REV   | A1 |          |         |
| 20 < L ≤ 50  | 0.1   | 0.15  | 0.3                                                                                 | 0.4 |          |      |  |  |       |    |          |         |
| 50 < L ≤ 200 | 0.15  | 0.25  | 0.4                                                                                 | 0.5 |          |      |  |  |       |    |          |         |
| 200 < L      | 0.2   | 0.4   | 0.5                                                                                 | 0.5 |          |      |  |  |       |    |          |         |
| DEG.         | CHKD. | APPD. |  |     | UNIT     | mm   |  |  |       |    | PART NO. | ST-0003 |
| Anni         |       |       | SCALE                                                                               |     | REF.     |      |  |  |       |    |          |         |
|              |       |       |                                                                                     |     | REM.     |      |  |  |       |    |          |         |



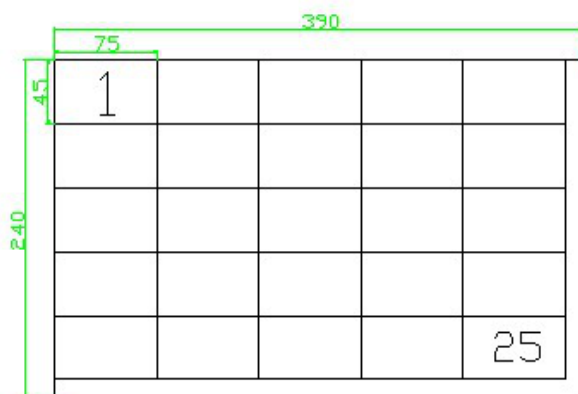
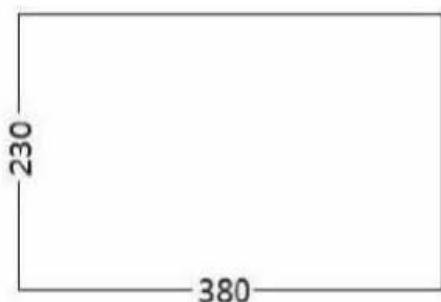
PE袋:110\*80\*0.03mm

成品1PCS装入PE袋  
装入PE袋成品2PCS放入小白盒  
小白盒材质 (450G)  
外径尺寸: 长\*宽\*高  
L75\*W22.5\*H60mm  
TOLERANCE:  $\pm 1$

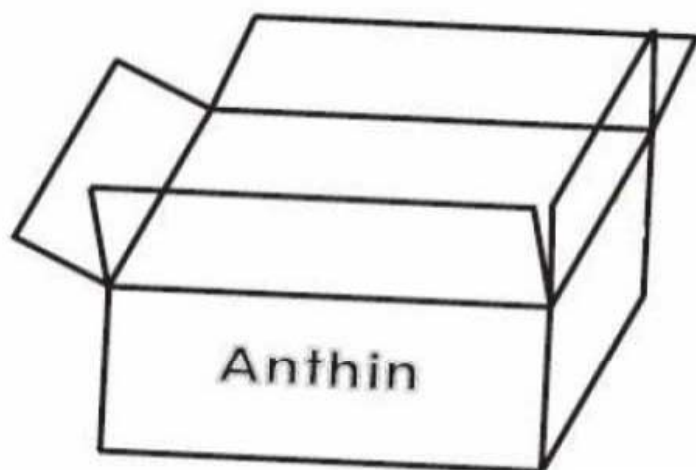
注:PE袋不要用胶纸固定



WHITE INNER BOX+OUT CARTON  
WHITE INNER BOX OUT SIDE DIMENSION:  
L\*W\*H (75\*22.5\*60mm)  
TOLERANCE:  $\pm 1$



每层装25个小白盒, 共可装4层。



成品400PCS装入外箱  
外箱3段: K=A  
外径尺寸: 长\*宽\*高  
L390\*W240\*H282mm  
平卡尺寸: 长\*宽  
L380\*W230mm

| TOLERANCE |       |       |                                                                                     |         | FINISH   |         |          |         | NAME | PACKING |
|-----------|-------|-------|-------------------------------------------------------------------------------------|---------|----------|---------|----------|---------|------|---------|
| L<4       | ±0.05 | ±0.08 | ±0.1                                                                                | ±0.2    |          |         |          |         |      |         |
| 4<L<20    | ±0.08 | ±0.1  | ±0.2                                                                                | ±0.3    | MATERIAL | REV. A1 |          |         |      |         |
| 20<L<50   | ±0.1  | ±0.15 | ±0.3                                                                                | ±0.4    |          |         |          |         |      |         |
| 50<L<200  | ±0.15 | ±0.25 | ±0.4                                                                                | ±0.6    |          |         |          |         |      |         |
| 200<L     | ±0.2  | ±0.4  | ±0.5                                                                                | ±0.8    |          |         |          |         |      |         |
| DEG.      | CHKD. | APPD. |  | UNIT    | mm       |         | PART NO. | ST-0003 |      |         |
| Anni      |       |       | SCALE                                                                               | REF.    |          |         |          |         |      |         |
|           |       |       |  | DWG NO. |          |         |          |         |      |         |