

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

Customer :

## APPROVAL SHEET

PRODUCT: AC ADAPTOR(RoHS Compliant)

MODEL: APK305-1205

PART NO. ST-0040

V : A1

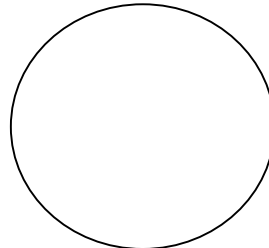
Receiver's stamp or signature

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>APK305-1205</b>                    | <b>PART NO.</b>  | <b>ST-0040</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> <div>12.TEST REPORT</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>APK305-1205</b>                    | <b>PART NO.</b>  | <b>ST-0040</b> |

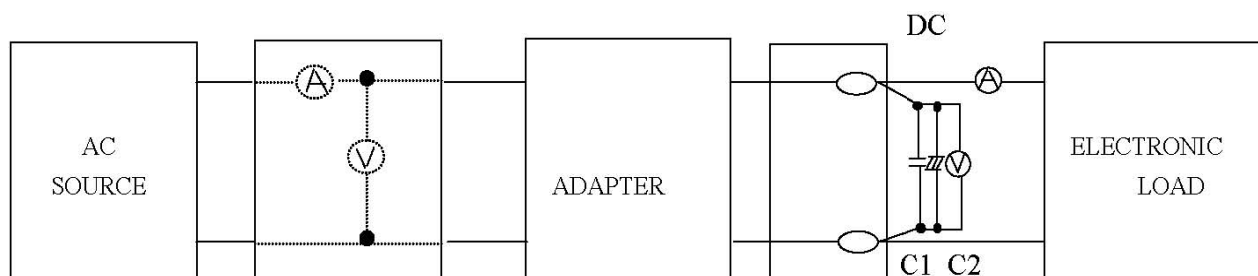
## 1.INPUT REQUIREMENT

| 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 |                                                               |       | 12Vdc |       |
| DC OUTPUT VOLTAGE RANGE  | TYPICAL OUTPUT VOLTAGE ±5%                                    | 11.4V |       | 12.6V |
| LOAD CURRENT RANGE       |                                                               | 0A    |       | 0.5A  |
| PEAK LOAD CURRENT        | TIME<60S                                                      |       |       | 0.8A  |
| RIPPLE                   | TYPICAL INPUT VOLTAGE , TYPICAL LOAD CURRENT , 25℃            |       |       | 120mV |
| HOLD-UP TIME             | AT TYPICAL INPUT VOLTAGE AND FULL LOAD                        | 10mS  |       |       |
| TURN-ON DELAY            | TYPICAL INPUT VOLTAGE AND TYPICAL LOAD                        |       |       | 1S    |
| OVER CURRENT PROTECTION  | AUTO RECOVERY                                                 |       |       |       |
| SHORT CIRCUIT PROTECTRON | THE ADAPTER SHALL NOT DAMAGE BY SHORT THE DC OUTPUT TO GROUND |       |       |       |
| OVER VOLTAGE PROTECTION  |                                                               |       | 13.8V | 18V   |

## \*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.   | APK305-1205                   | PART NO.  | ST-0040 |

### 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 HUMILITY    | NON-CONDENSING                  | 5%RH |      | 90%RH |
| STORAGE HUMILITY      | NON-CONDENSING                  | 5%RH |      | 90%RH |

|        |             |                 |           |         |
|--------|-------------|-----------------|-----------|---------|
| Anthin | DESCRIPTION | SWITCHING POWER | SHEET NO. | 4 OF 4  |
|        |             | AC ADAPTER      | VER:      | A1      |
|        | MODEL NO.   | APK305-1205     | PART NO.  | ST-0040 |

6.OUTLOOKING

DIMENSION

WEIGHT

AC INPUT TYPE

DC OUTPUT TYPE

:46.3(L)X49(W)X30.5(H)mm

:ABOUT 75g

:WALL MOUNT

: 5.5\*2.1\*9.5 S TYPE

DC OUTPUT CABLE

INDICATION

CASE MATERIAL

PCB MATERIAL

:USE UL 2468 22AWG WIRE ROHS COMPLIANT

:LABEL ROHS COMPLIANT

:94V-0 ABS+PC BLACK ROHS COMPLIANT

:94V-0 ROHS COMPLIANT

7.SAFETY

|                         |          |          |
|-------------------------|----------|----------|
| COMPLY SAFETY STANDARDS | STANDARD | FILE NO. |
|                         |          |          |
|                         |          |          |

EMI

CE

8.QC CHECK

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

(1)DC PLUG POLE CHECK

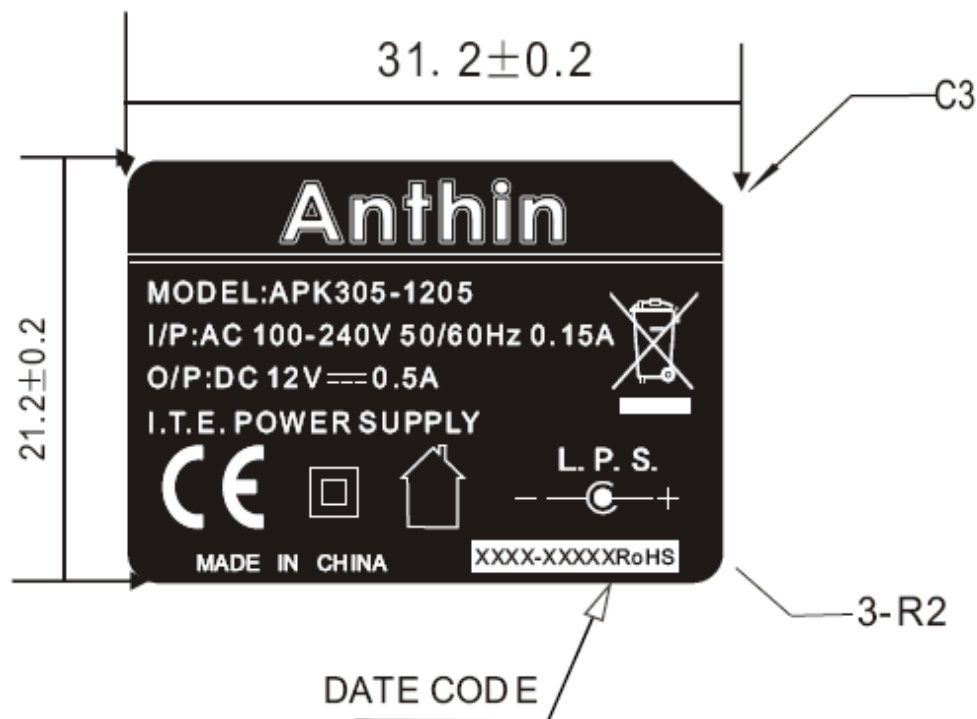
(2)OCP FUNCTION CHECK

(3)DC OUTPUT VOLTAGE CHECK

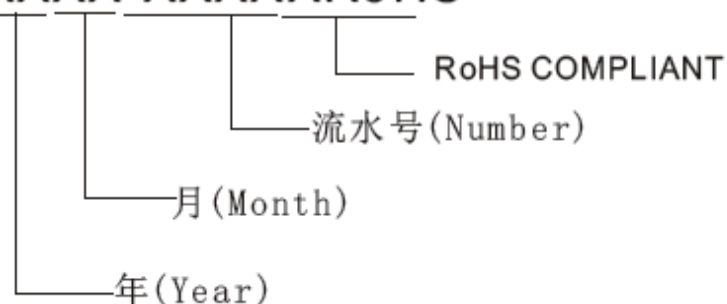
(4)HIPOT&INSULATION CHECK

(5)OUTLOOKING CHECK





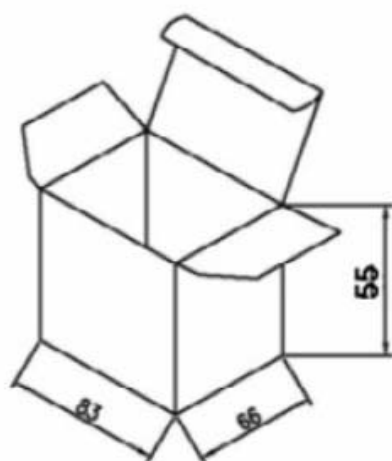
XXXX-XXXXRoHS



### NOTE:

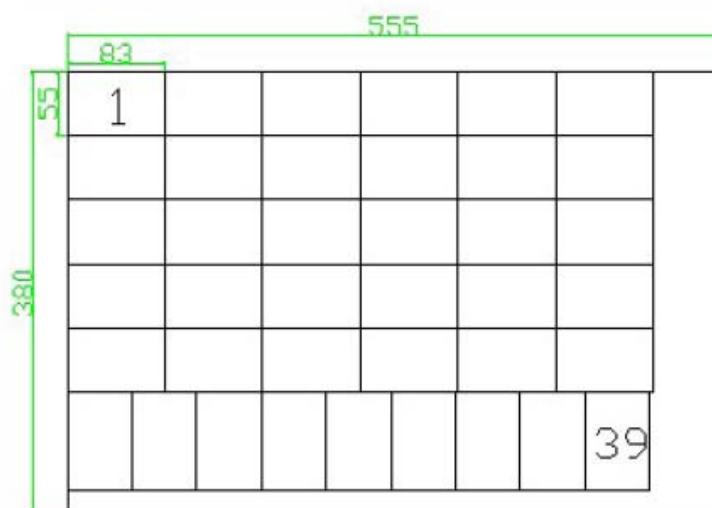
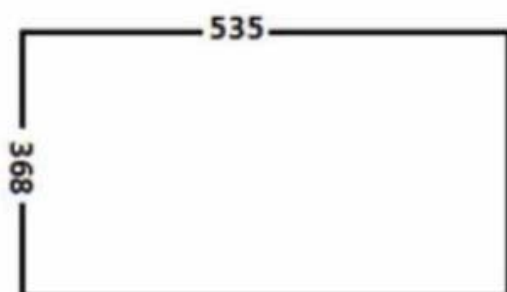
- 1.SILVER WORD(银字) ON BLACK BASE(黑底).
- 2.MATERIAL:PVC + MYLAR FILM
- 3.ROHS COMPLIANT.

| TOLERANCE    |       |       |                                                                                     |     | FINISH   |      |     |  | NAME: LABEL |         |
|--------------|-------|-------|-------------------------------------------------------------------------------------|-----|----------|------|-----|--|-------------|---------|
| L ≤ 4        | 0.05  | 0.08  | 0.1                                                                                 | 0.2 |          |      |     |  | REV.        | A1      |
| 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 | MATERIAL |      | QTY |  | PART NO.    | ST-0040 |
| 200 < L      | 0.2   | 0.4   | 0.5                                                                                 | 0.8 |          |      |     |  |             |         |
| DEG.         | CHKD. | APPD. |  |     | UNIT     | mm   |     |  |             |         |
| Anni         |       |       |  |     | SCALE    | REF. |     |  |             |         |
|              |       |       |                                                                                     |     | REM.     |      |     |  |             |         |

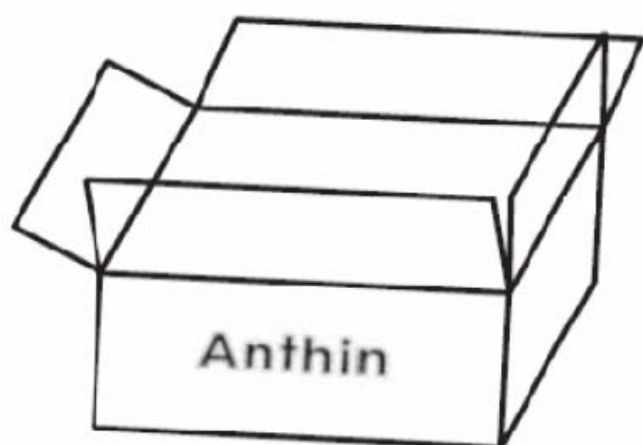


成品1PCS装入小白盒  
小白盒材质 ( 450G )  
外径尺寸 : 长\*宽\*高  
L\*W\*H ( 83\*66\*55mm )  
TOLERANCE :  $\pm 1$

WHITE INNER BOX+OUT CARTON  
WHITE INNER BOX OUT SIDE DIMENSION :  
L\*W\*H ( 83\*66\*55mm )  
TOLERANCE :  $\pm 3$   
RoHSCOMPLIANT



每层装39个小白盒，共可装3层。



成品117PCS装入外箱  
外箱3段 : K=A  
外径尺寸 : 长\*宽\*高  
L555\*W380\*H236mm  
平卡尺寸 : 长\*宽  
L535\*W368mm

| TOLERANCE    |       |       |                                                                                     |         | FINISH   |  |  |          |         |         |  |
|--------------|-------|-------|-------------------------------------------------------------------------------------|---------|----------|--|--|----------|---------|---------|--|
| 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       |  |  | NAME     |         | PACKING |  |
| Anni         |       |       | SCALE                                                                               | REF.    |          |  |  | PART NO. | ST-0040 |         |  |
|              |       |       |  | DWG NO. |          |  |  |          |         |         |  |