

DATE: 2013-8-23 (YY/MM/DD)

Customer :

# APPROVAL SHEET

PRODUCT: AC ADAPTOR(RoHS COMPLIANT)

MODEL: API345-1238BX

PART NO. ST-0286

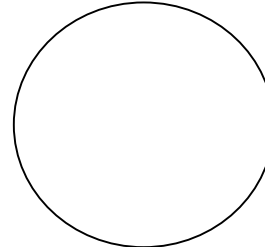
V : A1

Receiver's stamp or signature

PLEASE APPROVE & RETURN BEFORE 2013-9-6  
OR WE WOULD REGARD IT BEEN CONFIRMED.

| RESPONSIBLE | APPROVED | ISSUED          |
|-------------|----------|-----------------|
|             |          | <i>nishuang</i> |

ISSUES STAMP



## Revised History

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

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POWER SUPPLY

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|               |                    |                        |                  |                |
|---------------|--------------------|------------------------|------------------|----------------|
| <b>Anthin</b> | <b>DESCRIPTION</b> | <b>SWITCHING POWER</b> | <b>SHEET NO.</b> | <b>1 OF 4</b>  |
|               |                    | <b>AC ADAPTER</b>      | <b>VER:</b>      | <b>A1</b>      |
|               | <b>MODEL NO.</b>   | <b>API345-1238BX</b>   | <b>PART NO.</b>  | <b>ST-0286</b> |

1.INPUT REQUIREMENT

2.OUTPUT SPECIFICATION

3.MECHANICAL

4.RELIABILITY

5.ENVIRONMENT

6.OUTLOOKING

7.SAFETY

8.QC CHECK

9.DIMENSION

10.AC CORD

11.LABEL

12.PACKING

|               |                    |                                       |                  |                |
|---------------|--------------------|---------------------------------------|------------------|----------------|
| <b>Anthin</b> | <b>DESCRIPTION</b> | <b>SWITCHING POWER<br/>AC ADAPTER</b> | <b>SHEET NO.</b> | <b>2 OF 4</b>  |
|               | <b>MODEL NO.</b>   | <b>API345-1238BX</b>                  | <b>VER:</b>      | <b>A1</b>      |
|               |                    |                                       | <b>PART NO.</b>  | <b>ST-0286</b> |

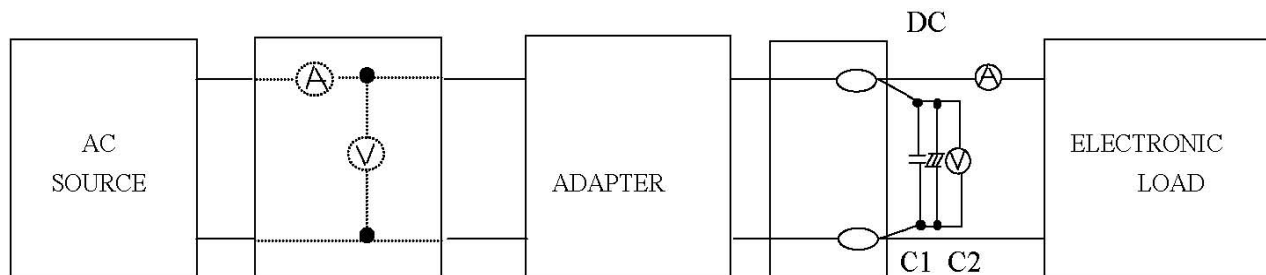
### 1.INPUT REQUIREMENT

| 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.        |        |               | 1200mA |
| AC INRUSH CURRENT       | TYPICAL INPUT VOLTAGE& OUTPUT AT FULL LOAD , 25°C. |        |               | 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 $\pm 5\%$                              | 11.4V |       | 12.6V |
| LOAD CURRENT RANGE       |   | 0A    |       | 3.8A  |
| PEAK LOAD CURRENT        | TIME<60S  |       |       | 4.6A  |
| RIPPLE                   | TYPICAL INPUT VOLTAGE , TYPICAL LOAD CURRENT , 25°C           |       |       | 120mV |
| HOLD-UP TIME             | AT TYPICAL INPUT VOLTAGE AND FULL LOAD                        | 10mS  |       |       |
| TURN-ON DELAY            | TYPICAL INPUT VOLTAGE AND TYPICAL LOAD                        |       |       | 2S    |
| 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 | 16V   |

### \*TEST MEASURES



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

|               |                    |                                       |                  |                |
|---------------|--------------------|---------------------------------------|------------------|----------------|
| <b>Anthin</b> | <b>DESCRIPTION</b> | <b>SWITCHING POWER<br/>AC ADAPTER</b> | <b>SHEET NO.</b> | <b>3 OF 4</b>  |
|               | <b>MODEL NO.</b>   | <b>API345-1238BX</b>                  | <b>VER:</b>      | <b>A1</b>      |
|               |                    |                                       | <b>PART NO.</b>  | <b>ST-0286</b> |

### 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 TYPICAL LOAD | TEST THE SURFACE OF THE CASE WITH TYPICAL LOAD OUTPUT AND TYPICAL AC INPUT 50/60Hz | TEMPERATURE UP UNDER 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 |

|               |                    |                        |                  |                |
|---------------|--------------------|------------------------|------------------|----------------|
| <b>Anthin</b> | <b>DESCRIPTION</b> | <b>SWITCHING POWER</b> | <b>SHEET NO.</b> | <b>4 OF 4</b>  |
|               |                    | <b>AC ADAPTER</b>      | <b>VER:</b>      | <b>A1</b>      |
|               | <b>MODEL NO.</b>   | <b>API345-1238BX</b>   | <b>PART NO.</b>  | <b>ST-0286</b> |

6.OUTLOOKING

DIMENSION :96(L)X44(W)X35(H)mm  
 WEIGHT :ABOUT 150g  
 AC INPUT TYPE : WALL MOUNT  
 DC OUTPUT TYPE :5.5\*2.1\*9.5MM S TYPE



DC OUTPUT CABLE :USE UL 2468 18AWG WIRE RoHS COMPLIANT  
 INDICATION :LABEL RoHS COMPLIANT  
 CASE MATERIAL :94V-0 ABS+PC BLACK RoHS COMPLIANT  
 PCB MATERIAL :94V-0 RoHS COMPLIANT

7.SAFETY

| COMPLY SAFETY STANDARDS | STANDARD | FILE NO. |
|-------------------------|----------|----------|
| UL CUL                  |          |          |
| PSE                     |          |          |

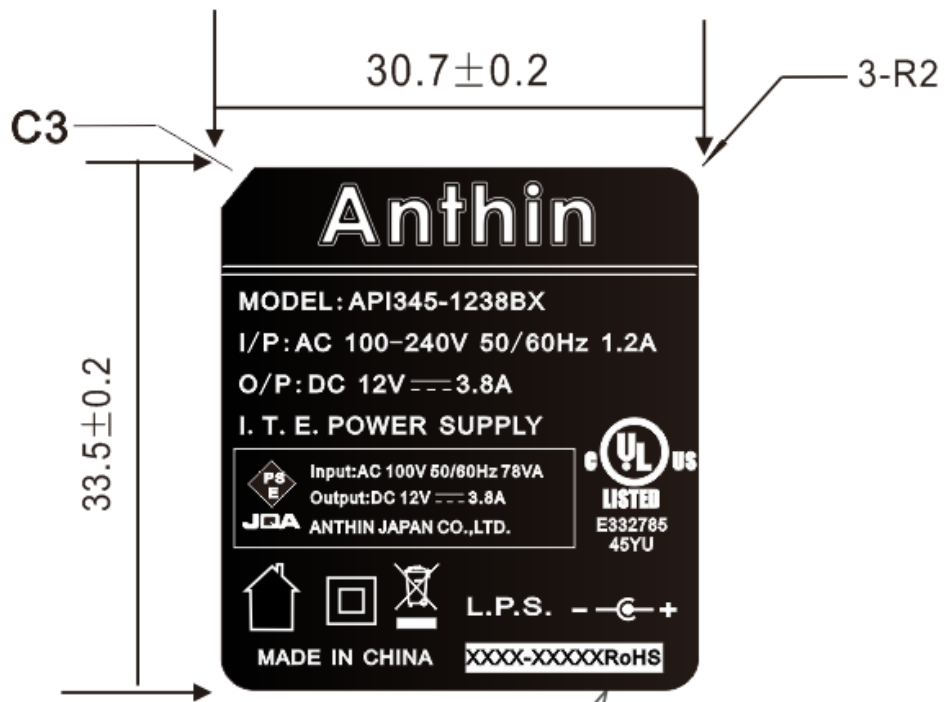
|     |
|-----|
| EMI |
|     |

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





DATE CODE

XXXX-XXXXXRoHS

ROHS COMPLIANT

流水号 (Number)

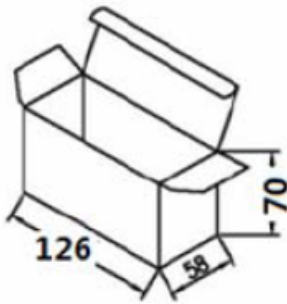
月 (Month)

年 (Year)

**NOTE:**

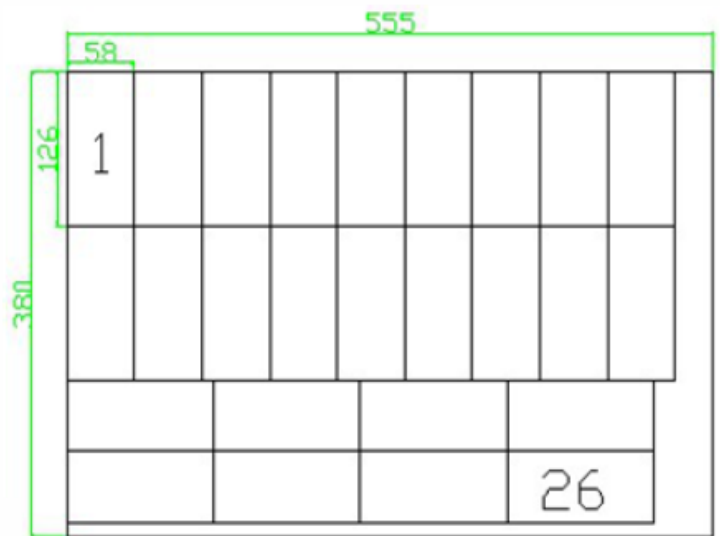
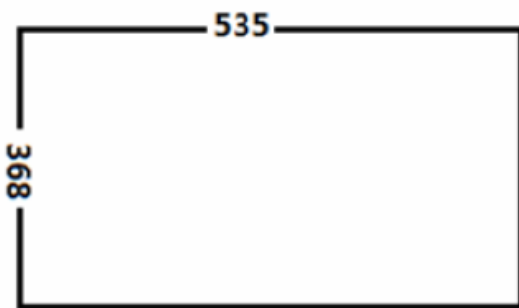
1. SILVER WORD (银字) ON BLACK BASE (黑底).
2. MATERIAL: PVC + MYLAR FILM
3. ROHS COMPLIANT.

| TOLERANCE    |       |       |       | FINISH | NAME: LABEL |          |
|--------------|-------|-------|-------|--------|-------------|----------|
| L < 4        | 0.04  | 0.08  | 0.1   |        | 0.2         | MATERIAL |
| 4 < L < 20   | 0.08  | 0.1   | 0.2   | 0.3    |             |          |
| 20 < L < 50  | 0.1   | 0.15  | 0.3   | 0.4    | REV.        | A1       |
| 50 < L < 200 | 0.15  | 0.25  | 0.4   | 0.6    |             |          |
| 200 < L      | 0.2   | 0.4   | 0.5   | 0.8    | PART NO.    | ST-0286  |
| DEG.         | CHKD. | APPD. | SCALE | UNIT   |             |          |
| Anni         |       |       |       | REF.   |             |          |
|              |       |       |       | REM.   |             |          |

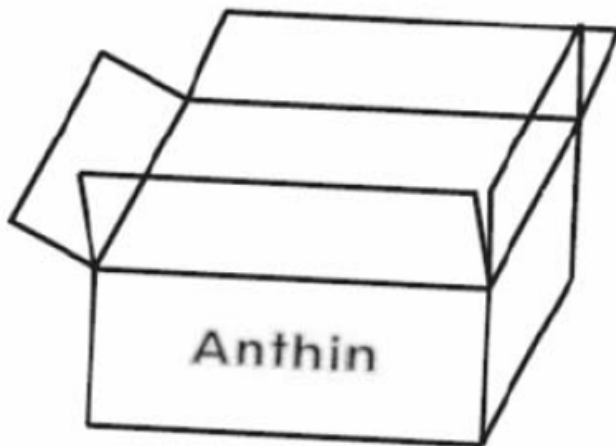


成品1PCS装入小白盒  
 小白盒材质 (450G)  
 外径尺寸 : 长\*宽\*高  
 L\*W\*H (126\*58\*70mm)  
 TOLERANCE : ±1

WHITE INNER BOX+OUT CARTON  
 WHITE INNER BOX OUT SIDE DIMENSION :  
 L\*W\*H (126\*58\*70mm)  
 TOLERANCE : ±1



每层装26个小白盒，共可装3层。



成品78PCS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   | REV. A1 |          | NAME     | 12.PACKING |
|-----------|--------|---------|----------|-------|----------|---------|----------|----------|------------|
| L<4       | 4<L<20 | 20<L<50 | 50<L<200 | 200<L |          |         |          |          |            |
| ±0.05     | ±0.08  | ±0.1    | ±0.2     | ±0.3  | MATERIAL | UNIT    | mm       | PART NO. | ST-0286    |
| ±0.08     | ±0.1   | ±0.2    | ±0.3     | ±0.4  |          |         |          |          |            |
| ±0.1      | ±0.15  | ±0.3    | ±0.4     | ±0.6  | SCALE    | REF.    | DWG NO.  | PART NO. | ST-0286    |
| ±0.15     | ±0.25  | ±0.4    | ±0.6     | ±0.8  |          |         |          |          |            |
| ±0.2      | ±0.4   | ±0.5    | ±0.8     | ±1.0  | DEG.     | CHKD.   | APPD.    | UNIT     | mm         |
| Anni      |        |         | SCALE    | REF.  | UNIT     |         | mm       | PART NO. | ST-0286    |
|           |        |         | DWG NO.  | UNIT  |          | mm      | PART NO. | ST-0286  |            |