



Shenzhen Sunlight Electronic CO., LTD

承認書

SPECIFICATION FOR APPROVAL

CCC AC DC Adapter 9V 2A Power Supply Switching 2000mA 9 Volt Adaptor

CUSTOMER: _____

DESCRIPTION: ADAPTER

SPECS: 9V2A AC/DC ADAPTER

MODEL NO.: ITXGA090020

DATE: June-23-2014

APPROVAL SIGNATURE		
DATE:	DATE:	DATE:

PLEASE RETURN TO US ONE COPY OF "SPECIFICATION FOR APPROVAL" WITH YOUR APPROVED SIGNATURE

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1. FEATURE :

- INPUT : UNIVERSAL 110-240 Vac/50-60 Hz INPUT, WITHOUT ANY SLIDE SWITCH
- OUTPUT : +9.0V / 0-2.0A
- DIMENSION : 80.0(D)*50.0(W)*35.0(T)
- EFFICIENCY : 80% TYPICAL
- SAFETY : UL/CB/GS/SAA/PSE/LVD/CCC/BSMI
- EMI : FCC CLASS B / EN55022 CLASS B; CONDUCTED & RADIATED MEETED
- HIGH FREQUENCY DESIGN, LESS POWER CONSUMPTION
- OVER VOLTAGE PROTECTION, SHORT CIRCUITED PROTECTION, OVER POWER PROTECTION
- CAN BE USED AT TELCOMMUNICATION, COMPUTER, INDUSTRIAL CONTORLLER & OA SYSTEM

2. INPUT :

2.1 VOLTAGE	UNIVERSAL 100~240Vac,SINGLE PHASE
2.2 FREQUENCY	50HZ~60HZ
2.3 CURRENT	1.0A Max
2.4 INRUSH CURRENT	20A Max/110Vac;40A Max/240Vac (COLD STABT AT 25°C FULL LOAD)
2.5 EFFICIENCY	80% TYPICAL (AT NOMINAL LINE VOLTAGE FULL LOAD)
2.6 INPUT POWER DISSIPATION	UNDER 0.30W < ZERO LOAD 115V/60HZ INPUT
	UNDER 0.30W < ZERO LOAD 230V/50HZ INPUT

3. OUTPUT :

3.1 DC OUTPUT	VOLTAGE	+9.0V
	CURRENT	2.0A Max
	REGULATION	8.55V Min~9.00 V Typ.~9.45V Max
	RIPPLE & NOISE	100mV Max
	TOTAL POWER	18W Max

NOTE : FOR RIPPLE & NOISE MEASUREMENT, USE A 20MHZ BAND WIDTH FREQUENCY OSCILLOSCOPE, AND ADD A 0.1uF MULTILAYER CAP. AND A LOW ESR ELECTROLYTICCAP. (10uF) AT OUTPUT CONNECTOR TERMINALS. (AT NOMINAL LINE VOLTAGE FULL LOAD)

4. PROTECTION :

4.1 OVER VOLTAGE PROTECTION	10.8V MAX. The power supply shall be hiccupped when output voltage reaches to its over voltage protection trigger point.
4.2 SHORT CIRCUIT PROTECTION	The power supply shall be hiccupped when operating any output in a short circuit condition.

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4.3 OVER POWER PROTECTION	The adapter provide protection at 150%~300% of rated output power, the adapter shall be hiccupped but not damage.
4.4 OVER CURRENT PROTECTION	6.0A MAX. The power supply shall be hiccupped when output current reaches to its over current protection trigger point.

NOTE : WHEN PROTECTION CIRCUIT IS WORKING THE POWER SUPPLY WILL HICCUPPED, ONCE THE ABNORMAL CONDITIONS ARE REMOVED. THE POWER SUPPLY WILL RESTART AUTOMATICALLY.

5. SAFETY AND EMI REQUIREMENT :

5.1 SAFETY REQUIREMENT

a. SAFETY : UL/CB/GS/SAA/PSE/LVD/CCC/BSMI

b. DIELECTRIC STRENGTH :5mA Max. CUT OFF CURREN

(1):PRIMARY TO SECONDARY	3000Vac FOR 1 MINUTE
(2):PRIMARY TO FRAME GROUND	3000Vac FOR 1 MINUTE

c. INSULAION RESISTANCE :

(1):PRIMARY TO SECONDARY	50 M OHMS min FOR 500Vdc
(2):PRIMARY TO FRAME GROUND	50 M OHMS min FOR 500Vdc

d. LEAKAGE CURRENT :

(1) : 100VAC / 60HZ	< 0.25 mA
(2) : 240VAC / 50HZ	< 0.25 mA

5.2 EMI/EMS REQUIREMENT

a. EMI : FCC CLASS B / EN55022 CLASS B; CONDUCTED & RADIATED MEETED

b. Electron Static Discharge(ESD) :

Applicable Standard	CONDITION	SPECIFICATION
IEC/EN 61000-4-2	Contact discharge performance is 4KV; Air discharge performance is 8KV	Normal operation shall be continued

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c. Lightning Surge :

Applicable Standard	CONDITION	SPECIFICATION
IEC/EN 61000-4-5	+/- 1KV (Line to Line) +/- 2KV (Line to Ground)	Normal operation shall be continued

d. Electric Fast Transients :

Applicable Standard	CONDITION	SPECIFICATION
IEC/EN 61000-4-4	+/-1KV for Power Supply Line	Normal operation shall be continued

6. OPERATION & ENVIRONMENT PERFORMANCE:

6.1 TEMPERATURE RANGE

OPERATING	-15°C ~ +45°C
STORAGE	-40°C ~+70°C

6.2 HUMIDITY RANGE (NON CONDENSING)

OPERATING	10% ~ 90% RH
STORAGE	5% ~ 95% RH

6.3 Product operating/storage test requirement :

TEST ITEM	CONDITION	SPECIFICATION
High Temperature Storage TEST	70 degree C for 72H	There is no malfunction and deformation to be found after TEST.
High Temperature Operation TEST	40 degree C for 16H	There is no malfunction and deformation to be found after TEST.
LowTemperature Storage TEST	-20 degree C for 72H	There is no malfunction and deformation to be found after TEST.
Low Temperature Operation TEST	0 degree C for 16H	There is no malfunction and deformation to be found after TEST.

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Termal Shock Operation TEST	Apply 2 cycle from 0 degree C to +40 degree C as 24 Hours as 1 cycle	There is no malfunction and deformation to be found after TEST.
Termal Shock Storage TEST	Apply 2 cycle from -20 degree C to +70 degree C as 2 Hours as 1 cycle	There is no malfunction and deformation to be found after TEST.

6.4 COOLING : SHOULD OPERATE WITHOUT FAN

6.5 M.T.B.F. : 30000 HOURS Min ; 25°C SEE CONDITION

7. MECHANICAL REQUIREMENT :

7.1 DIMENSION : 80.0(D)*50.0(W)*35.0(T)

7.2 DROP TEST : From a height of 100cm onto concrete or similar material.
No impairment of normal function, breaking away of any parts or change

7.3 VIBRATION TEST : Non-operating but with packing. Shock acceleration 50 G, sin, 100Ms.
Directions of force : X , Y , Z . One time at 6 directions. There is no malfunction and deformation to be found after TEST.

7.4 APPEARANCE : There shall not be any remarkable defects such as clack, distortion, uneven color, dirty nameplate and its peeling

7.5 Tensile Strength of the Cord : A static load of 100N is applied to the cord for 1 minute
The cord should not be deteriorated

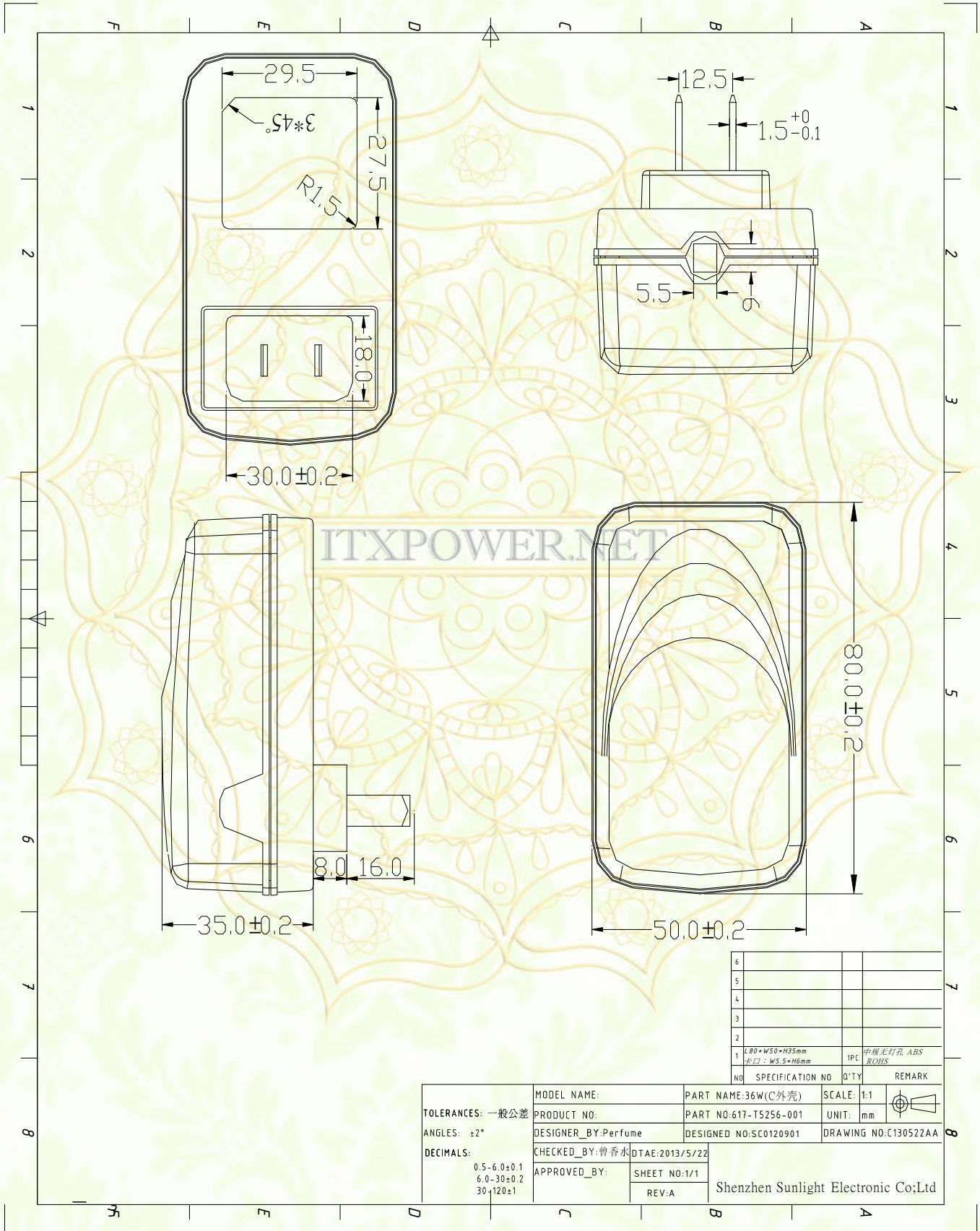
7.6 Cord Bending TEST : Hang the specified weight and swing it to one direction and return to the original position, then swing to the opposite direction and return to the original position .The strain relief shall be subjected to the specified cycles and speed. Weight 200 (g), Angle ± 60 degree, 1000 times, Cycles in every minute 30, Distance 300mm.

8. PRODUCT GUARANTEE : AFTER SHIPMENT 12 MONTHS.

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9. PRODUCT OUTLINE DRAWING:



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10. DC OUTPUT CORD DRAWING:

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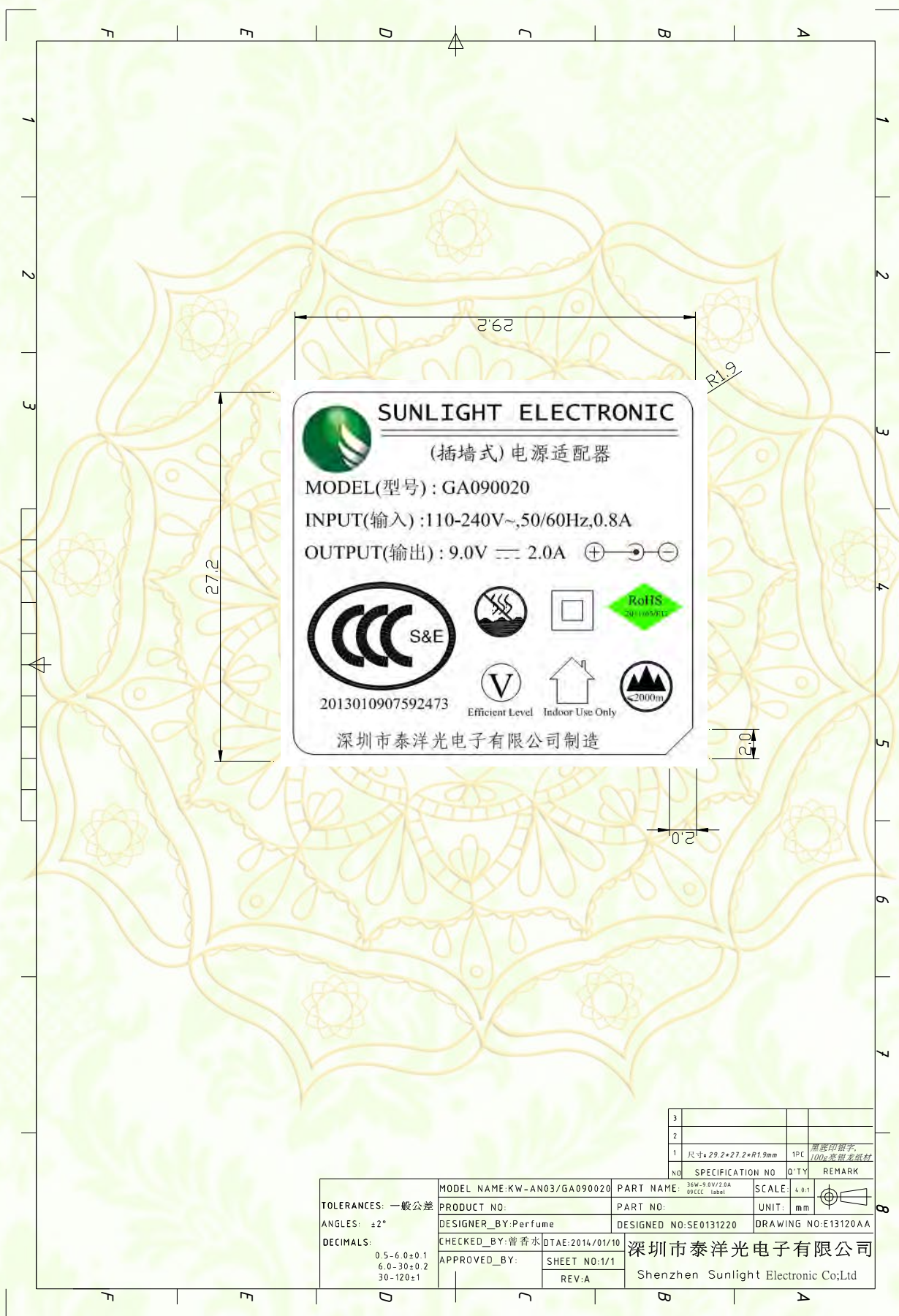
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11. RATING LABEL DRAWING :



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12 . CIRCUIT DIAGRAM :

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13 . PCB LAYOUT :

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14.TEST REPORT:

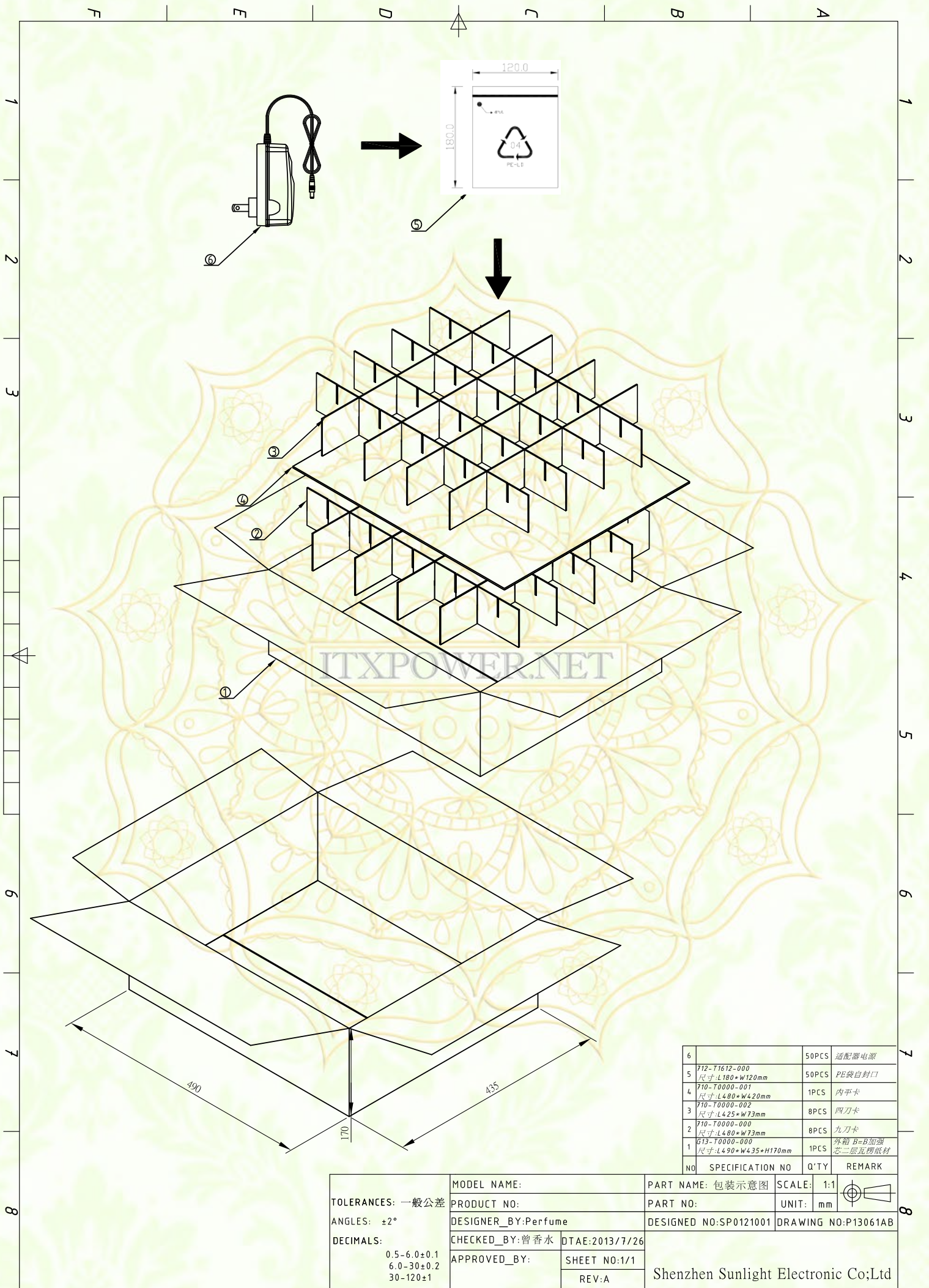
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15. PACKING DRAWING :



NO	SPECIFICATION NO	Q'TY	REMARK
6	712-T1612-000	50PCS	适配器电源
5	尺寸:L180*W120mm	50PCS	PE袋自封口
4	710-T0000-001	1PCS	内平卡
	尺寸:L480*W420mm		
3	710-T0000-002	8PCS	四刀卡
	尺寸:L425*W73mm		
2	710-T0000-000	8PCS	九刀卡
	尺寸:L480*W73mm		
1	613-T0000-000	1PCS	外箱 B=B加强 芯二层瓦楞纸材
	尺寸:L490*W435*H170mm		

TOLERANCES: 一般公差 ANGLES: ±2° DECIMALS: 0.5-6.0±0.1 6.0-30±0.2 30-120±1	MODEL NAME:	PART NAME: 包装示意图	SCALE: 1:1	
	PRODUCT NO:	PART NO:	UNIT: mm	
	DESIGNER_BY: Perfume	DESIGNED NO: SP0121001	DRAWING NO: P13061AB	
	CHECKED_BY: 曾香水	DTAE: 2013/7/26		
	APPROVED_BY:	SHEET NO: 1/1	Shenzhen Sunlight Electronic Co;Ltd	
		REV: A		

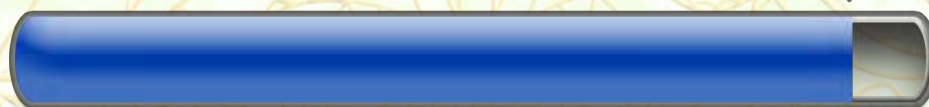
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16. SAFETY LICENSE : (3C)

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