

# Shenzhen Sunlight Electronic Co., Ltd.

## Specification Sheet

PRODUCT:	ADAPTER AC: 100-240V DC: 5V 1A
MODEL:	G051DA-050100B-1
PART NO:	B531-238
VER:	A1
CUSTOMER:	Unihedron
DATE:	2013-11-25

<See the attached details>

	DESCRIPTION	SWITCHING POWER AC ADAPTER	SHEET NO.	1 OF 4
			VER:	A1
	MODEL NO.	G051DA-050100B-1	PART NO.	B531-238

1.INPUT REQUIREMENT

2.OUTPUT SPECIFICATION

3.MECHANICAL

4.RELIABILITY

5.ENVIRONMENT

6.OUTLOOKING

7.SAFETY

8.QC CHECK

9.DIMENSION

10.LABEL

11.PACKING

	DESCRIPTION	SWITCHING POWER AC ADAPTER	SHEET NO.	2 OF 4
	MODEL NO.	G051DA-050100B-1	VER:	A1
			PART NO.	B531-238

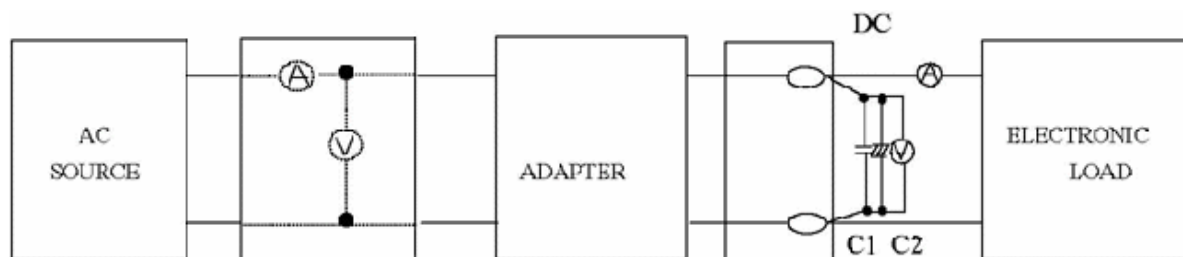
### 1.INPUT REQUIREMENT

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.			200mA
AC INRUSH CURRENT	TYPICAL INPUT VOLTAGE& OUTPUT AT FULL LOAD , 25°C.			30A
EFFICIENCY	TYPICAL INPUT VOLTAGE& OUTPUT AT FULL LOAD	69.08%		

### 2.OUTPUT SPECIFICATION

ITEM	SPECIFICATION	MIN	TYP.	MAX
NORMAL DC OUTPUT VOLTAGE			5Vdc	
DC OUTPUT VOLTAGE RANGE	TYPICAL OUTPUT VOLTAGE $\pm 5\%$	4.75V		5.25V
LOAD CURRENT RANGE		0.1A		1.0A
PEAK LOAD CURRENT	TIME<60S			1.1A
RIPPLE	TYPICAL INPUT VOLTAGE , TYPICAL LOAD CURRENT , 25°C			50mV
HOLD-UP TIME	AT TYPICAL INPUT VOLTAGE AND FULL LOAD	10mS		
TURN-ON DELAY	TYPICAL INPUT VOLTAGE AND TOP 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			8V	8.5V
NO LOAD PPOWER DISSIPATION				0.3W

### \*TEST MEASURES



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

	DESCRIPTION	SWITCHING POWER AC ADAPTER	SHEET NO.	3 OF 4
			VER:	A1
	MODEL NO.	G051DA-050100B-1	PART NO.	B531-238

### 3.MECHANICAL

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

### 4.RELIABILITY

ITEM	TEST CONDITION	ACCEPTANCE CRITERIA
TEMPERATURE UP WITH TYPICAL LOAD	TEST AT SURFACE OF THE CASE WITH TYPICAL AC INPUT AND TYPICAL LOAD IN OUTPUT 50/60Hz	TEMPERATURE UP UNDER 35 DEGREES
HI-POT TEST	GRADUALLY RAISED FROM 0 TO THE 3000Vac AND HELD AT THAT VALUE FOR 3S,5mA	NO DAMAGE
INSULATION RESISTANCE	INPUT TO OUTPUT,DC 500V	>50MΩ
MTBF	TYPICAL INPUT&FULL LOAD , 25℃	50000 HOURS
LIFE	TYPICAL INPUT&FULL LOAD, 40℃ TYPICAL INPUT&FULL LOAD, 25℃	1YEARS ABOVE 2YEARS ABOVE
BURN-IN	AT 30℃(±10℃),NORMAL INPUT VOLTAGE	2~4 HOURS

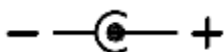
### 5.ENVIRONMENT

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

	DESCRIPTION	SWITCHING POWER AC ADAPTER	SHEET NO.	4 OF 4
			VER:	A1
	MODEL NO.	G051DA-050100B-1	PART NO.	B531-238

### 6.OUTLOOKING

DIMENSION :59.5(L)X43(W)X34.5(H)mm  
 WEIGHT :ABOUT 120g  
 AC INPUT TYPE : WALL MOUNT  
 DC OUTPUT TYPE :5.5×2.1×9.5 S TYPE 音叉沟槽



DC OUTPUT CABLE :USE 2468 22AWG WIRE  
 INDICATION :LABEL  
 CASE MATERIAL :94V-0 PC+ABS  
 PCB MATERIAL :94V-0

### 7.SAFETY

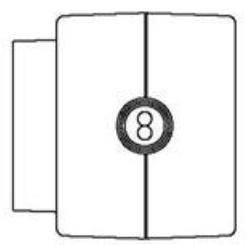
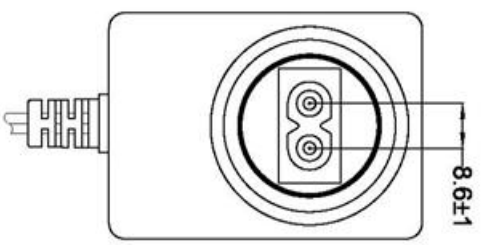
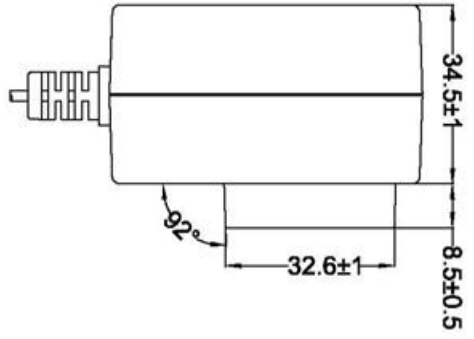
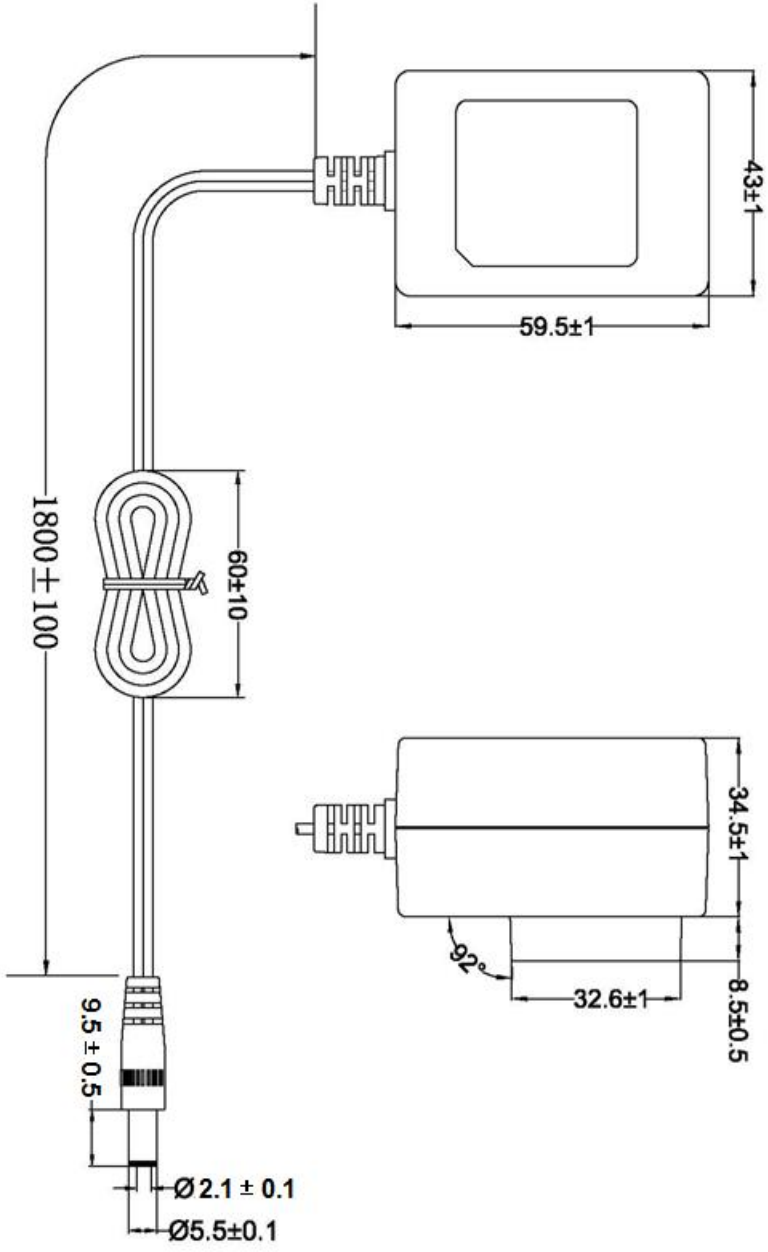
COMPLY SAFETY STANDARDS	STANDARD	FILE NO.
UL CUL	UL60950	E241618
GS	EN60950	
PSE	J60950	

EMI
FCC CE

### 8.QC CHECK

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

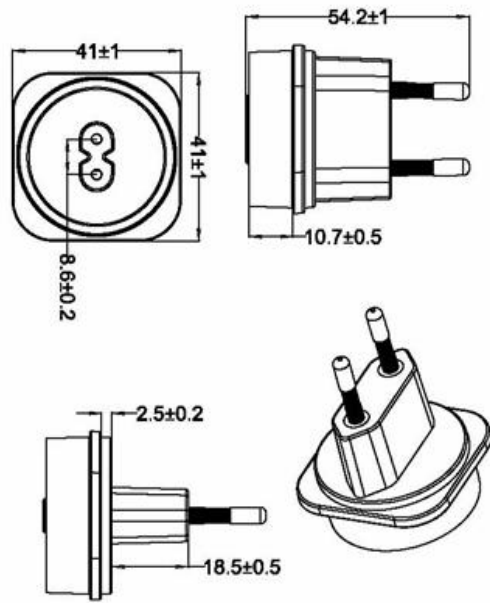
- (1)DC PLUG POLE CHECK
- (2)OCP FUNCTION CHECK
- (3)DC OUTPUT VOLTAGE CHECK
- (4)HIPOT&INSULATION CHECK
- (5)OUTLOOKING CHECK



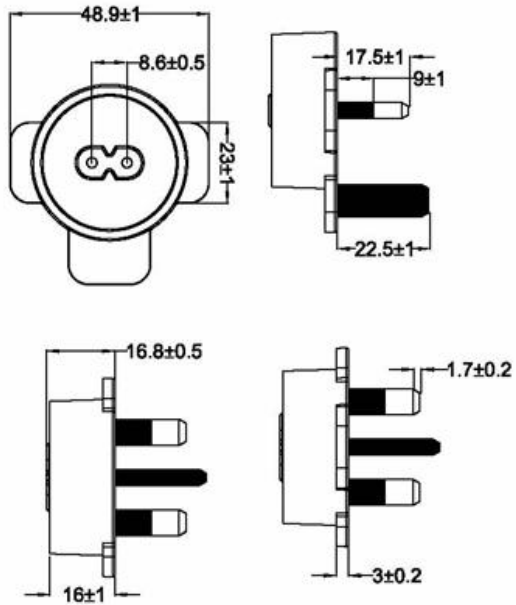
TOLERANCE		FINISH		MATERIAL		NAME	
L44	$\pm 0.05$	$\pm 0.05$	$\pm 0.1$	$\pm 0.2$	$\pm 0.3$	XXXXXX	DIMENSION
4-4-4-20	$\pm 0.05$	$\pm 0.1$	$\pm 0.2$	$\pm 0.3$	$\pm 0.4$		
20-4-4-20	$\pm 0.1$	$\pm 0.15$	$\pm 0.25$	$\pm 0.35$	$\pm 0.45$		
2004	$\pm 0.2$	$\pm 0.4$	$\pm 0.5$	$\pm 0.6$	$\pm 0.7$		
DISC.	CRMD.	APPL.					
SCALE	UNIT	REV.	A1				
DWG. NO.	XXX	XXX	XXX				
PART NO.							

WWT

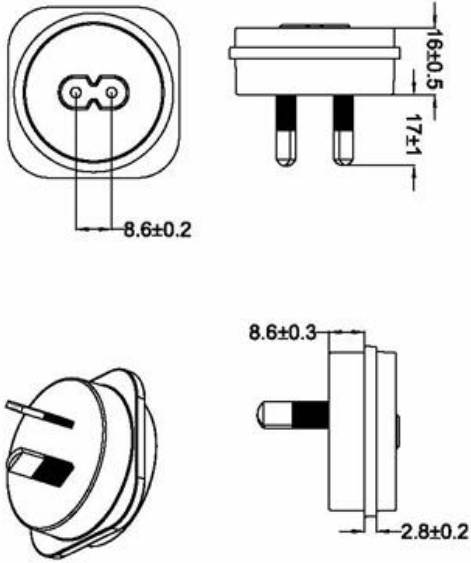
# FU



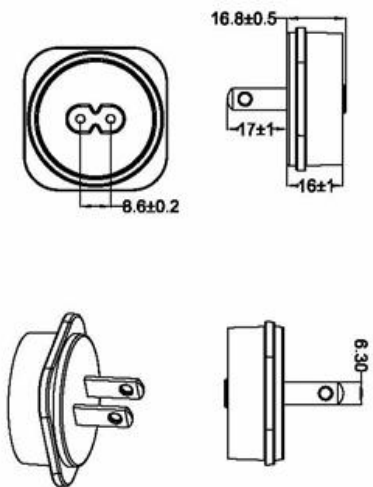
# BS



# SAA



# USA

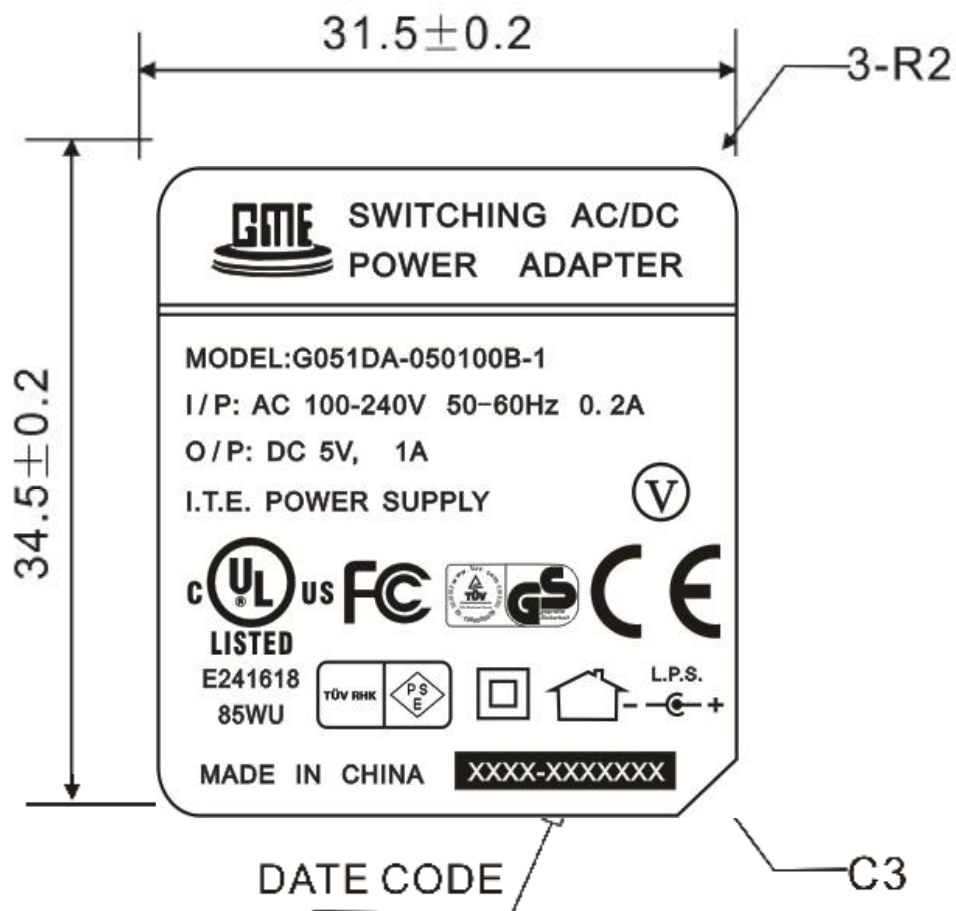


TOLERANCE		FINISH		MATERIAL		NAME	
L4	+0.08 / -0.08	+0.1	+0.2	XXX	mm	REV.	A1
L4/20	+0.08 / -0.08	+0.2	+0.2	XXX	mm	REV.	
36/4/20	+0.08 / -0.08	+0.2	+0.2	XXX	mm	REV.	
50/4/20	+0.15 / -0.25	+0.2	+0.2	XXX	mm	REV.	
2004	+0.2	+0.4	+0.8	2004	2004	REV.	
DESC.	CMDL.	APPL.	APPL.	SCALE	DWG. NO.	PART NO.	

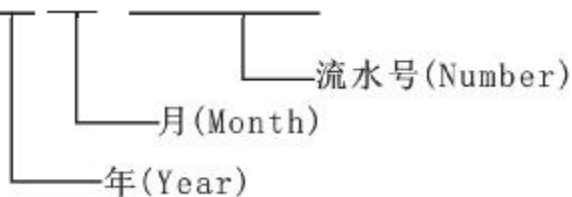
jmh

BS31-238

DIMENSION



XXXX-XXXXXXX

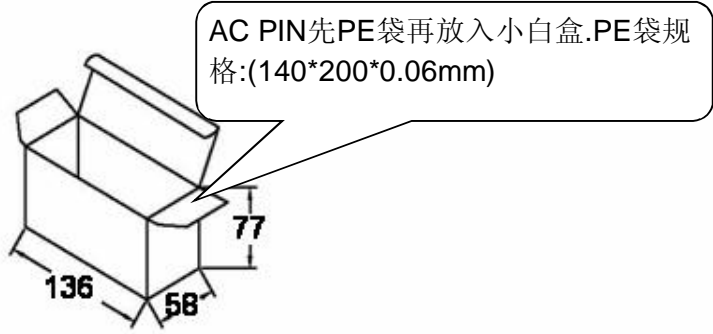


**NOTE:**

- 1.SILVER WORD ON BLACK BASE.
- 2.MATERIAL: PET + MYLAR FILM.

TOLERANCE				FINISH	NAME: LABEL	
L 2.4	1.6	0.8	0.4		MATERIAL	QTY
4 4.5 5	2.6	1.3	0.7	A1		
2 4.5 5	0.1	0.15	0.2	SCALE	UNIT mm	PART NO.
2 4.5 5	0.15	0.25	0.4			
2 4.5 5	0.2	0.4	0.7	UNIT	mm	PART NO.
DEG.	CHKD.	APPD.	SCALE	RFF.	REM.	
qmy						





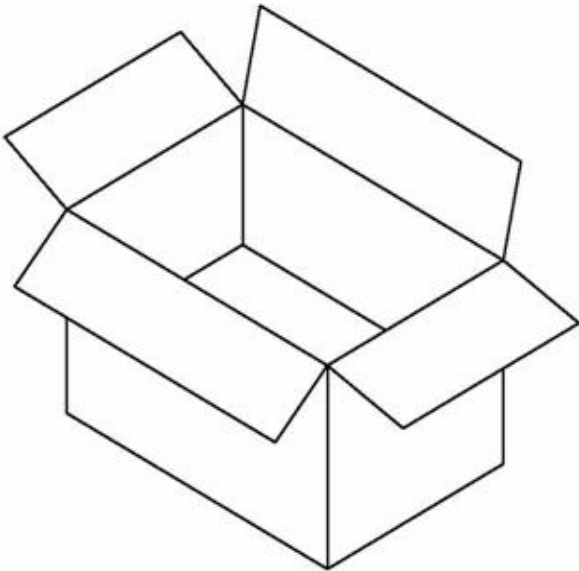
500g

WHITE INNER BOX+OUT CARTON

WHITE INNER BOX OUT SIDE DIMENSION:

L×W×H(136×58×77)

TOLERANCE:± 3



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	MATERIAL		REV.	A1	NAME
200<L	±0.2	±0.4	±0.5	±0.8					.PACKING
DEG.	CHKD.	APPD.			UNIT	mm			
qmy			SCALE		REF.			PART NO.	
			/		DWG NO.				