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D/N :TCRD1738

6 W POWER SUPPLY

Engineering specification

Model: SYS1196-0605-W2E

Part No: SYS1196-0605

For Approval

Product: POWER SUPPLY

MODEL No : <u>SYS1196-0605-W2E</u>

PART No: <u>SYS1196-0605 (RoHS)</u>

Customer: Papouch

Page : 1-9
Date : 2006/08/16
Rev : V1.0

	D.P/IN	·	
	Check	By: Cynthia 8/16/2006	
Customer	SIGN/APPF	COVAL Comments:	
Date:			

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General

The specification defines the performance c	haracteristics of a 6 W, Single Output level
switching power supply for	. The power supply has designed highly
reliable and meet international safety and ra	diation requirements.

1.0 Input requirements

1.1 Input voltage range

Type	Low range	High range
Nominal	115Vac	230Vac
Minimum	90Vac	185Vac
Maximum	132Vac	264Vac
Frequency	47-63Hz sine wave 1φ	47-63 Hz sine wave 1φ

	Auto range - switch	at approximately	150Vac±5Vac
--	---------------------	------------------	-------------

☑Universal range - 90~264Vac

Range - Selectable by jumper connector or wire.

Range - Selectable by switch.

1.2 Input Current

0.3A rms max At AC low line input and DC output full load

1.3 Input protection

1A Fuse	The power supply shall be protected against power line surges
	and any abnormal condition.

1.4 Input surge current

50A max	At power supply cold start, ambient temperature 25°℃@
	230Vac nominal AC input.

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1.5 Efficiency

ı	600/min	At AC naminal input@ output full load
	60%min	At AC nominal input@ output full load

1.6 Hold up time

10ms min	At AC nominal input@ output full load
	(1 half cycle)

1.7 Power consumption

1.0W rms max At AC nominal input@output min load
--

2.0 Output requirements

2.1 Turn on delay

3000 ms max	At AC low line input@output full load
2000 1110 1110111	1 0 1

^{*}Test on delay is measured from 0 voltage output to the main output regulation.

2.2 DC output regulation

3 7 1,	Loading(A)		Tolerance Range	Regulation			
Voltage	Min	Normal Max	Total Regulation	Line	Load		
+5V	0	1.2A	±5%				

- *Total regulation involved line regulation load regulation cross regulation---etc
- *Line regulation is measured from 90Vac to 132Vac or 185vac to 264vac
- *Load regulation is measured all output from min load to max load at 115vac or 230vac nominal AC input voltage.

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Part No: SYS1196-0605

2.3 Ripple/noise *

V	⁷ oltage	Low frequency *1	High frequency *2	*3	*4
	(DC)	Ripple mv(p-p)	Ripple mv(p-p)	Noise mv(p-p)	Ripple/Noise(p-p
)
	+5V				150mV

*The ripple is measured from peak to peak with band width limit of 20MHZ

(By passed at the end of connector with 10uf electrolytic and 0.1uf ceramic disk capacitor under DC output full Load, AC nominal input 25°C ambient temperature).

*1.2.3.4 Unless has special requirements otherwise *4 is the testing spec.

2.4 Output transient response (dv, tmax)

0.3 v dv max	At AC nominal input loading from 50% load to max load or peak load.
3.5ms t max	Dynamic rise time 10uS max, duty 40mS max,
	Dynamic load step is slew rate of 0.5A/Us

^{*}Test only for main output or designed by customer.

2.5 Burn in test: Will be defined after meeting.

2.6 Led display : None

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3.0 Protection

3.1 Short protection / Over current protection

The power supply will self-protect any output to ground, And auto recovery when abnormal circuit faults remove.

An output short circuit is defined as any output impedance of less than 0.1 ohms.

Short current and over current can not exceed 8A max after 1 min. at nominal line input.

Voltage	OCP	Power in(W)	OCP method		
	Current(A)		latch off	Current limit	Fold back
+5V	2.5 ±1				×

3.2 Over voltage protection

Voltage	OVP	(d	
	range	Latch	Auto	Voltage
	J	off	recovery	limit
+5V	7±1V			×

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Part No: SYS1196-0605

3.3 No load protection

The power supply is provided with noload operation to prevent the power supply and system from damage.

4.0 PLD (power line disturbance)

4.1 LINE POWER SURGE

The power supply shall meet its specification with a rise in AC voltage to 120% of maximum rated line voltage (288 voltage for 100-240 Vac operation) for a maximum of 20 milliseconds at 50Hz and 16 millisecond at 60Hz. The surge is to be applied five times with an internal of one minute between surges.

4.2 LINE VOLTAGE SAG

The power supply shall continue to meet its specifications with a line voltage drop (and subsequent return to minimum rated voltage) to 68 Vac with a total power sag cycle time of 20 ms (rise and fall time shell equal 10 ms each).

5.0 COOLING

Cooling Method						
Bymm fan force air cooling						

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By nature air.	×	
6.0 EMC		
Meet EN55022 class B, Fcc part 15 Sub	part B class B.	
6.1 CE spec.		
EN55022 Limits and methods of information technology equipment.	of measurement of radio disturbance	characteristics
EN55011 Limits and methods of industrial, scientific and medical(IS	of measurement of radio disturbance M) high frequency equipment.	characteristics
	of measurement of radio disturbance	
► EN61000-3-2 By household appl "Harmonics".	iances and similar electrical equipme	nt
☑ EN61000-3-3 By household appl fluctuations".	iances and similar electrical equipme	nt "Voltage
\square EN50082-1 By EMS TEST:		
ESD Measurement(EN61000-4-	2)	
RF Field strength Susceptibility	Measurement(EN61000-4-3).	
▼ Electrical Fast Transient/Burst N	Measurement(EN61000-4-4).	
Surge Immunity Test(EN61000-7.0 Leakage current: 0.25		
8.0 Safety approval		
A: <u>TUV</u> D:	<u>G</u> :	
B: <u>CB</u> E:		
C: F:	I:	

9.0 HI-POT

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Engineering specification

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☐HI-POT---A IEC 320 3pin primary to secondary (FG) 1500Vac 10mA 1min

☑HI-POT---B IEC 320 2pin primary to secondary 3000Vac 10mA 1min

10. Environment

TEMPERATURE AND HUMIDITY

OPERATING TEMPERATURE	0 DEGREES C TO 40 DEGREES C.
OPERATING HUMIDITY	8% TO 90% RH.(RELATIVE
HUMIDITY).	
STORAGE TEMPERATURE	-20 DEGREES C TO 85 DEGREES C.
STORAGE HUMIDITY	5% TO 95% RH.(RELATIVE
HUMIDITY).	

11. Vibration

SWEEP AND RESONANCE SEARCH

FREQUENCY DURATION AXIS AMPLITUDE

5-20-500 30 MINUTES X,Y,Z 1G

12. M.T.B.F

Shall be 35000 power on hours on greater under 25 degrees C of ambient temperature $\overline{\text{MTBF un}}$ der evaluated under.

13. Mechanical

13.1 Dimension unit: (mm)(max)

 $L\times W\times H = 55 \times 28 \times 42$

13.2 Weight (g):

13.3 Drawing: As Attachment()

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Model: SYS1196-0605-W2E

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14. DC output connector type and pin assignment: As Attachment()

DATE

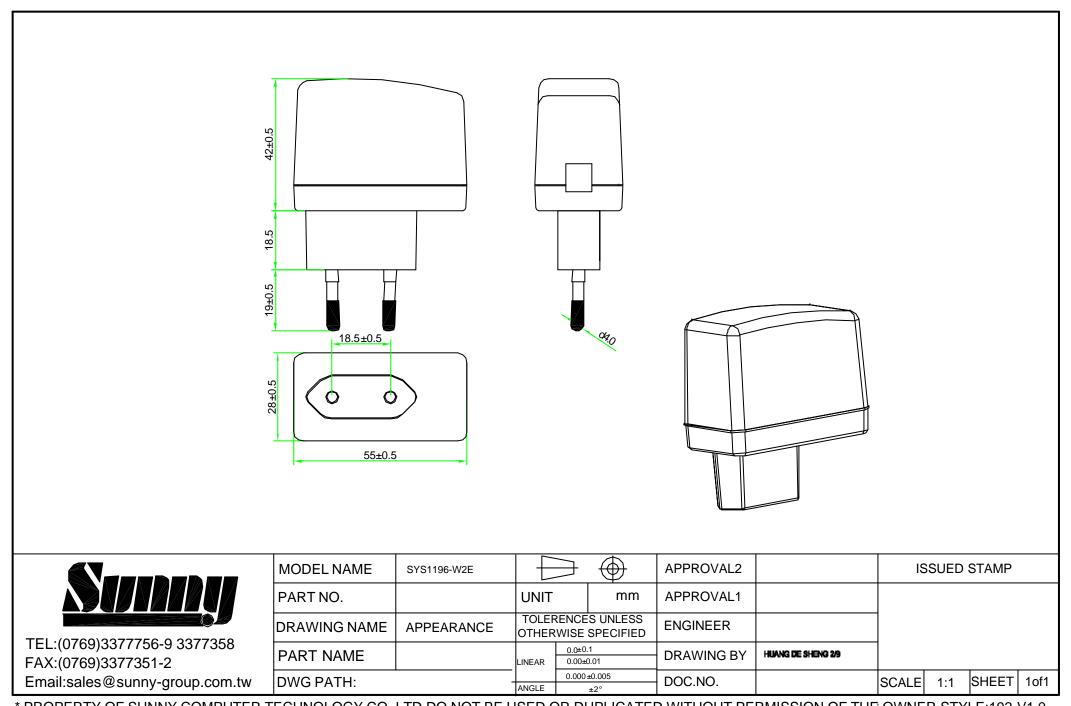
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FILE ADDRESS

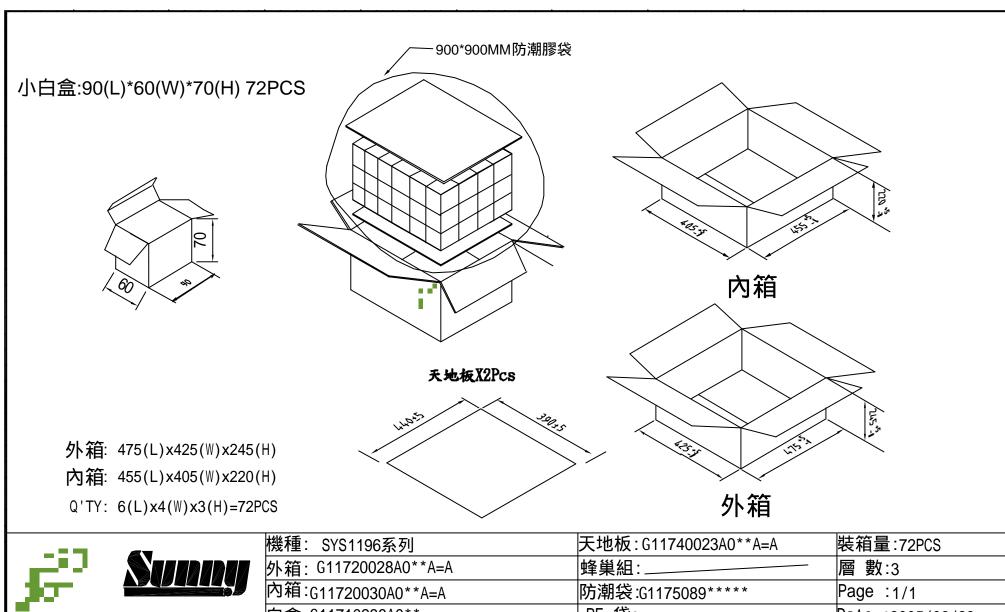
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- 15. Label specification: As Attachment()
- **16. Package**: As Attachment()



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包裝規定

機種: SYS1196系	· 夕·J	大地板:G11/40023AO**A=A	装相重:72PCS
外箱: G11720028		蜂巢組:	層 數:3
內箱:G11720030A	0**A=A	防潮袋:G1175089****	Page :1/1
白盒:G11710238A	0**	PE 袋:	Date :2005/06/23
			NO.: M62090506010
核准:	審核:	制作: 韋瑞恭	REV :V1.0



SCALE:1.0X

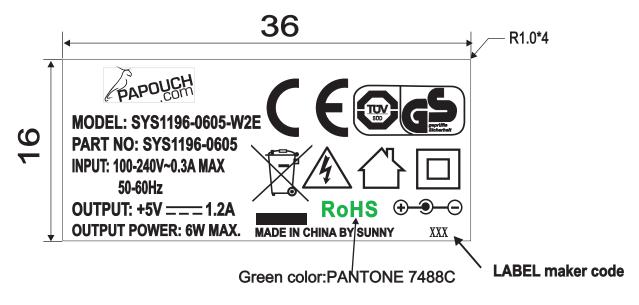
NOTE:

1>黑底白字霧面

2>.Material: PVC

3>.Thickness: 180#

4>.Tolerance:+/-0.1mm



SCALE:3.0X



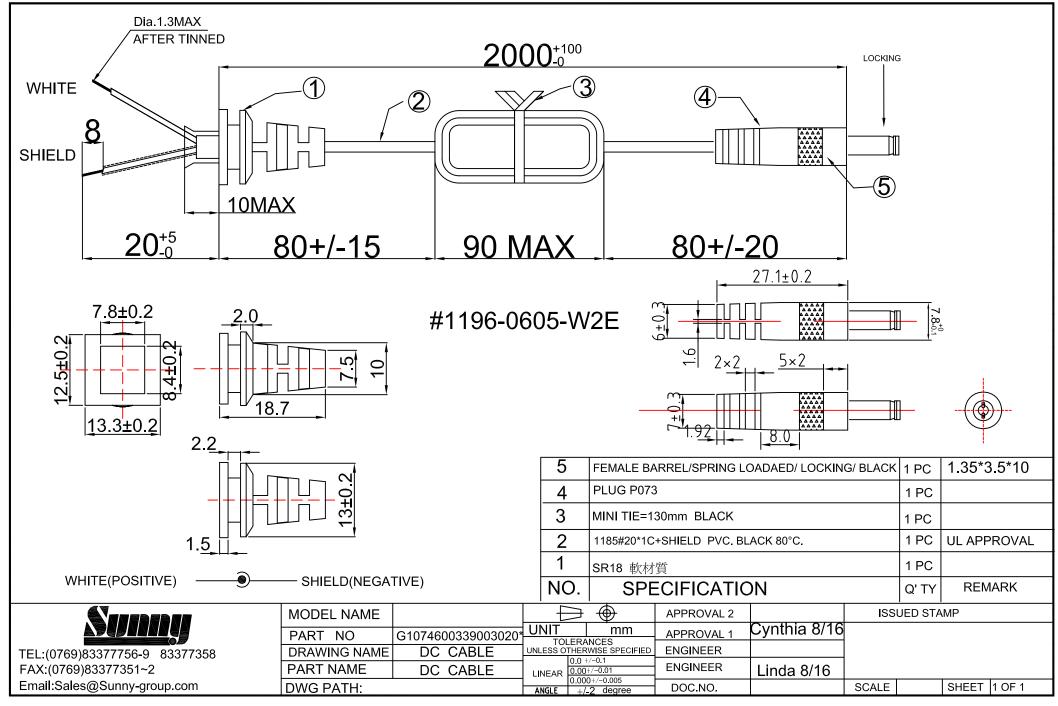
TEL: (0769)83377756-9 83377358

FAX:(0769)83377351-2

Email:sales@sunny-group.com

	MODEL NAME	SYS1196-0605-W2E	-	\Rightarrow	\bigoplus	APPROVAL2		IS	SUE	D STA	MP
	PART NUMBER	G1151050125A0	UN	IT	mm	APPROVAL1	Cvnthia 8/16				
	DRAWING NAME	LABEL	l	TOLERANO S OTHERW	CES ISE SPECIFIED	ENGINEER	,				
	PART NAME		l	0.0 +/- 0.1 0.00+/- 0.01		DRAWING BY	LU SUN 8/16				
	DWG PATH:D\COREL\LABEL			0.000+/- 0.00	И	DOG NO		CCALE	1:1	SHEET	1 Of 1
			ANGEL	+/- 2degree		DOC.NO.		SCALE	111	SHEET	1011

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