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ELECTRONICS

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Jameco Part Number 196270

SPECIFICATION

CUSTOMER: JAMES

DATE: 08.07.15

MODEL NO: SL005125 (PSU25A-13)

DESIGNED NO: E8301

1) INPUT:

- a) Input voltage 100 to 240VAC (Limit: 90 to 260 VAC)
- b) Input frequency 47 to 63 Hz
- c) Input current 0.8A MAX
- d) Safety ground leakage current 3.5mA MAX @ 240VAC/50Hz

2) OUTPUT:

- a) Output voltage & current +5VDC / 2.5Amps
+12VDC / 1Amps
- b) Output power range 25Watts Max
- c) Ripple & Noise 50mVp-p max. (1% peak to peak maximum) (20MHz BW)
120mVp-p max. (1% peak to peak maximum) (20MHz BW)
- d) Overvoltage protection 5.6 to 6.6 VDC (112-132%)
- e) Load regulation 4.75 to 5.25 VDC (5% maximum)
11.40 to 12.60 VDC (5% maximum)

3) ENVIRONMENTAL:

- a) Operating temperature 0 to +40°C
- b) Storage temperature -10 to +80°C
- c) Relative Humidity 5% to 90% non-condensing
- d) Derating From +40°C derate linearly to 50% at +70°C

4) GENERAL:

- a) Efficiency 65% minimum at Full load
- b) Hold-up time 10msec minimum
- c) Line regulation +1% maximum at full load
- d) Inrush current 30Amps @ 115VAC or 60Amps @ 230VAC
at 25°C cold start
- e) Withstand voltage 4242VDC from input to output, 2121VDC from
input to ground
- f) Insulation resistance 10MΩ minimum from input to ground
- g) Mean time between failure 100,000 hours minimum at full load at 25°C ambient
- h) EMI requirements Meets conduction limits of
(a) FCC part 15 class B (b) CISPR 22 class B
- i) Safety requirements Meets or exceeds:
(a) UL 1950 (b) CSA C22.2 (c) IEC 950 (d) EN 60950
- j) Temperature protection 125-135°C

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TEST PARAMETER	INITIAL	FINAL	LIMITS
1.) ISOLATION			
1.1) Primary ckt to GND (2121VDC, current limit at 5000uA)	OK	OK	
1.2) Primary ckt to secondary ckt (4242VDC, current limit at 5000uA)	OK	OK	
1.3) secondary ckt to GND (500VDC, current limit at 5000uA)	OK	OK	
2.) INSULATION			
2.1) Primary ckt to GND (1000VDC)	OK	OK	100M Ω min.
2.2) Primary ckt to secondary ckt (1000VDC)	OK	OK	100M Ω min.
2.3) Secondary ckt to GND (500VDC)	OK	OK	10M Ω min.
3.) OVP TEST			
High Line, no load supply a voltage source to output, adjust the voltage until power supply shuts off	OK	OK	
4.) SET UP VOLTAGE			
Nominal line, all output half load			
+5 VDC	5.03	5.03	+4.75 to 5.25 VDC
+12 VDC	11.95	11.95	+11.40 to 12.60 VDC
5.) NO LOAD TEST			
High line, output no load			
+5 VDC	5.07	5.07	+5.25V max.
+12 VDC	11.89	11.89	+12.60V max.
6.) LINE AND LOAD REGULATION			
6.1) High line, +5V max. load, +12V min. load			
+5 VDC	4.82	4.82	+4.75 to 5.25 VDC
+12 VDC	12.55	11.55	+11.40 to 12.60 VDC

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TEST PARAMETER	INITIAL	FINAL	LIMITS
6.2) High line, +5V min. load, +12V max. load			
+5 VDC	5.02	5.02	+4.75 to 5.25 VDC
+12 VDC	11.75	11.75	+11.40 to 12.60 VDC
6.3) Low line, +5V max. load, +12V min. load			
+5 VDC	4.82	4.82	+4.75 to 5.25 VDC
+12 VDC	12.55	11.55	+11.40 to 12.60 VDC
6.4) Low line, +5V min. load, +12V max. load			
+5 VDC	5.02	5.02	+4.75 to 5.25 VDC
+12 VDC	11.75	11.75	+11.40 to 12.60 VDC
6.5) Low line, +5V max. load, +12V max. load			
+5 VDC	4.81	4.81	+4.75 to 5.25 VDC
+12 VDC	11.98	12.98	+11.40 to 12.60 VDC

7.) SHORT CIRCUIT TEST

High line, max. load

+5 VDC	OK	OK
+12 VDC	OK	OK

8.) RIPPLE AND NOISE TEST

Low line, max. load

+5 VDC	28	28	50 mVp-p max
+12 VDC	62	62	120 mVp-p max

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TEST PARAMETER

INITIAL

FINAL

LIMITS

9.) EFFICIENCY

Nominal line, max. load

72

72

65% min

10.) DROPOUT VOLTAGE TEST

Low line, max. load, adjust input voltage to
give 50mVp-p

89

89

95 VAC max.

11.) UNIVERSAL VOLTAGE CHECK (115VAC)

low line: +5V max. load, +12V max. load, -12V

+5 VDC

4.81

4.81

+4.75 to 5.25 VDC

+12 VDC

11.98

12.98

+11.40 to 12.60 VDC

REMARK:

(1) Universal input voltage 90VAC to 264VAC

(2) Tested 3 to 7 at 230VAC input

LINE	115VAC	230VAC
High line	132VAC	264VAC
Nominal line	115VAC	230VAC
Low line	90VAC	180VAC

(3) Output current ratings

OUTPUT LEVEL	MIN. LOAD	HALF LOAD	MAX. LOAD
+5VDC	500 mA	1.25 A	2.50 A
+12VDC	200 mA	500 mA	1A

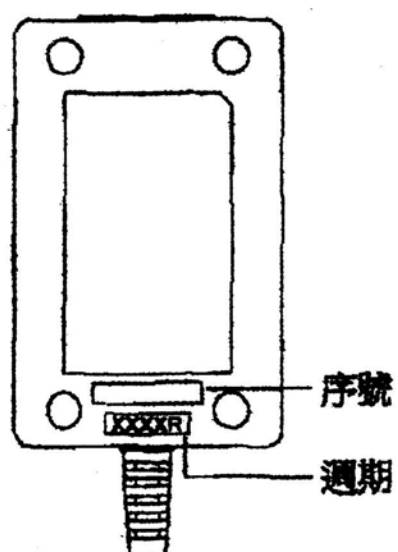
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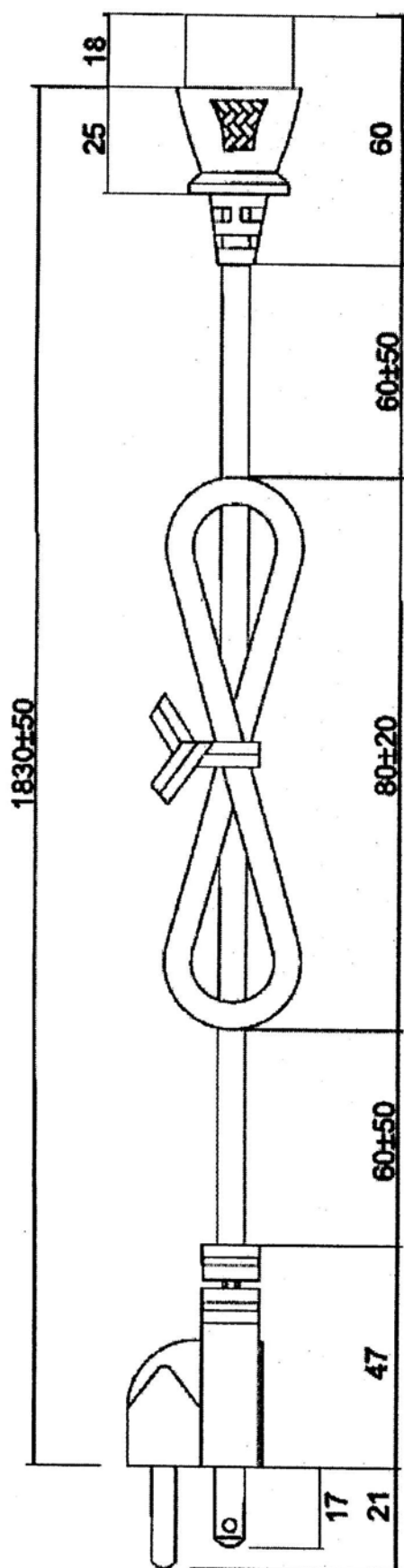
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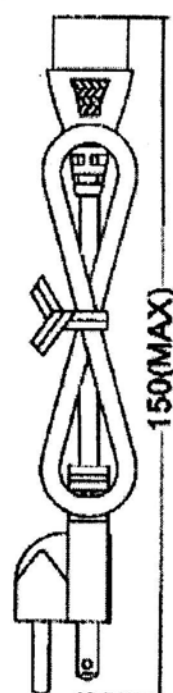
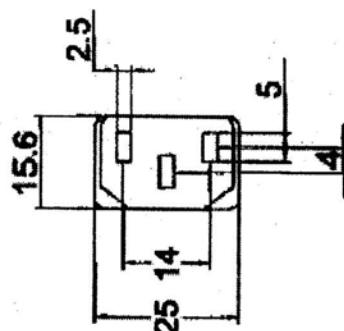
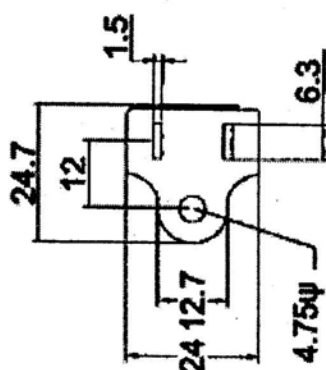
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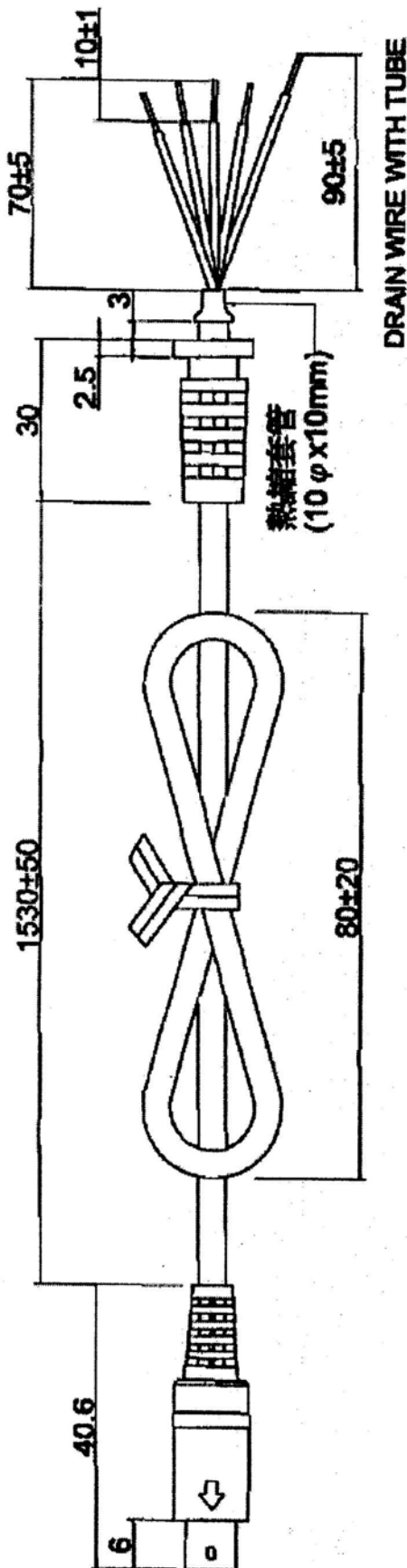




NOTE:

1. PLUG: LT-202+501
ST-003+CL-105
PHP-301+PHS-301
YP-12+YC-12
AMERICAN TYPE
2. CONNECTOR: LT-501 IEC-320 C13
3. CORD: SVT 18AWG/3C 75°C BLK
4. APPROVALS: UL CSA
5. AC PLUG RATING: 10A 125V





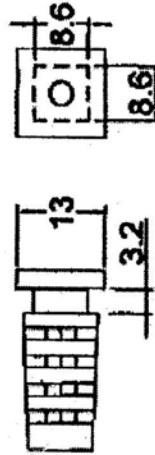
REMARK

1. PLUG : PL - 05 - 02
2. CABLE : 2C 18AWG, TINNED COPPER
- 2C 20AWG, TINNED COPPER
- INSULATION : SR - PVC
- COLOR : YELLOW, RED, BLACK, BLUE
- +DRAIN WIRE : 20AWG, TINNED COPPER
- +AL. MYLAR FOIL (AL. SIDE IN)
- +OUTER JACKET : PVC, COLOR : BLACK
- UL2484 APPROVED PRINT WHITE WORDS.

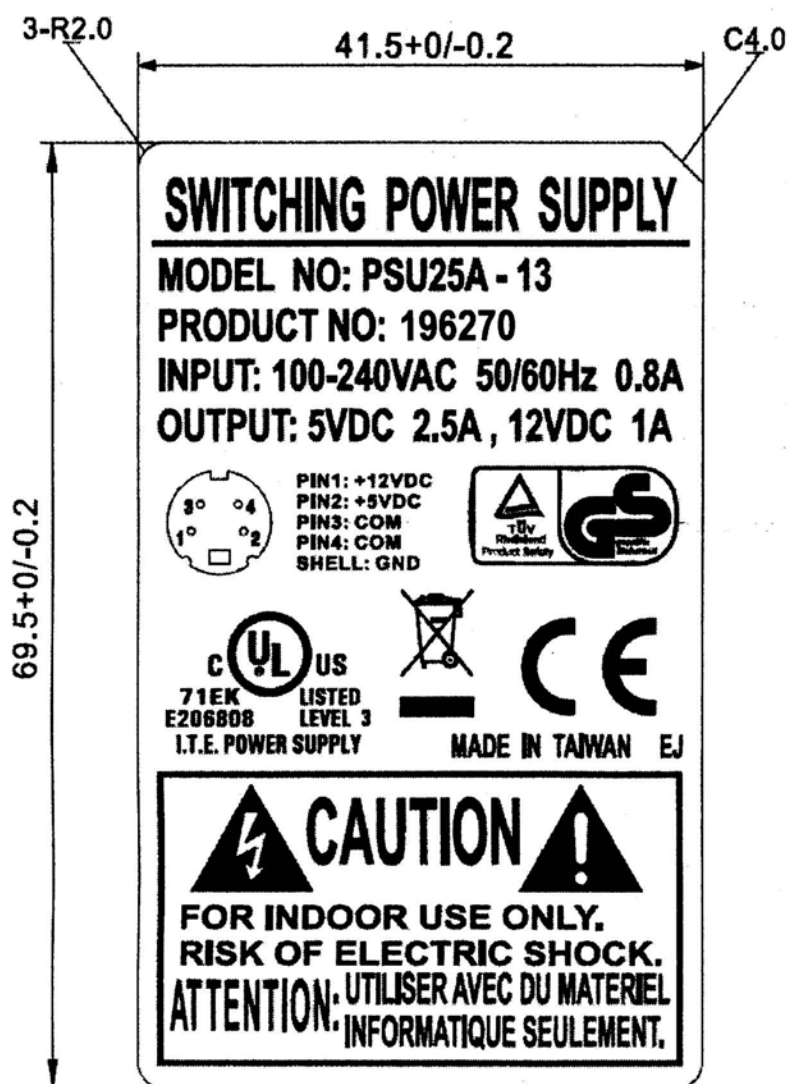


SHELL

- PIN 1 : 20AWG YELLOW
 PIN 2 : 18AWG RED
 PIN 3 : 18AWG BLACK
 PIN 4 : 20AWG BLUE
 SHELL: SHIELD WIRE



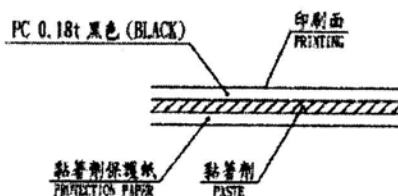
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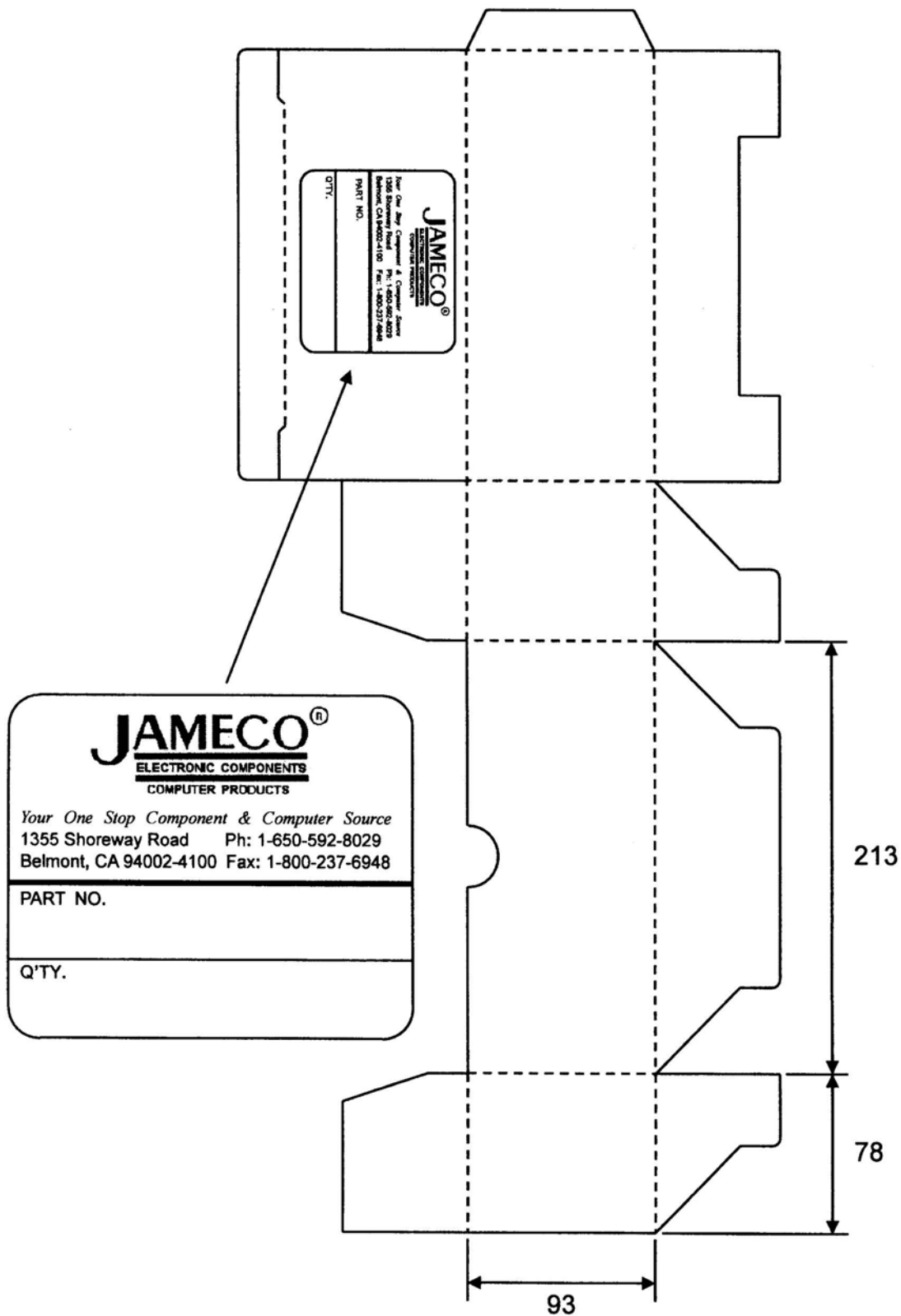
備註(REMARKS)

1. 印刷: 黑底銀字
PRINTING: WORD: SILVER / BACKGROUND: BLACK
2. 背膠: 須UL承認
STICKER: NEED UL APPROVE
3. 黏著力: 250g/cm² MIN
ADHESION: 250g/cm² MIN
4. **CE** 不得小於5mm/m
5. 所有字體皆為實心字, 銀色即為材質底色
6. 尺寸(W)41.5+0/-0.2mm (H)69.5+0/-0.2mm
7. 在台灣製造採霧面處理
在大陸製造採亮面處理

材料結構: (MATERIAL)



聯輝電機股份有限公司



材質:三層瓦楞紙 表面白板紙