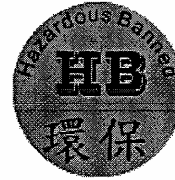


CUSTOMER: STONTRONICS

PART NUMBER: T3837ST



**APPROVAL
SHEET**

OF

SWITCHING ADAPTER

MODEL NO.

DSA-0421S-12 1 42

ORDER NO: YS3-02319

承認書确认后請簽回一份

CUSTOMER APPROVED SIGNATURE

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CONTENT OF APPROVAL SHEET

0. REVISION CONTROL LIST ----- 3

1. SPECIFICATION ----- 4-7

 0. REVISION CHANGE DESCRIPTION ----- 4

 1. GENERAL DESCRIPTION ----- 4

 2. INPUT REQUIREMENT ----- 4

 3. OUTPUT REQUIREMENT ----- 5

 4. MECHANICAL REQUIREMENT ----- 5

 5. ENVIRONMENTAL REQUIREMENT ----- 6

 6. SAFETY REQUIREMENT ----- 6

 7. RELIABILITY ----- 7

2. RATING LABEL DRAWING ----- 8

3. DC OUTPUT CORD DRAWING ----- 9

4. PRODUCT OUTLINE DRAWING ----- 10

5. PACKING DRAWING ----- 11

6. SAFETY LICENSE ----- 12-31

APPROVAL BY	SAFETY	DIRECTOR	ENGINEER	PREPARED
	呂小娟 2007/02/08	譚本銀 2007/02/08	汪建新 2007/02/08	侯啟錦 2007/02/07

0. REVISION CONTROL LIST

DATE	REVISION CONTROL ITEMS						
	CONTENT OF APPROVAL SHEET	SPECIFICATION	RATING LABEL DRAWING	DC OUTPUT CORD DRAWING	PRODUCT OUTLINE DRAWING	PACKING DRAWING	SAFETY LICENSE
2007,02,07	A	A	A	A	A	A	A

REVISION CHANGE DESCRIPTION

ITEM	REV	DESCRIPTION

1. SPECIFICATION

--1 / 4

0. REVISION CHANGE DESCRIPTION

Revision	Description	Date
A	Initial release	2007,02,07

1. GENERAL DESCRIPTION

This specification defines the input, output, performance characteristics, environment, noise and safety requirements for a 42 watts switching type power adapter. The adapter input/output are full range AC input and +12V DC with 42 watts nominal output.

2. INPUT REQUIREMENT

2-1 AC INPUT VOLTAGE

MINIMUM	NOMINAL	MAXIMUM
90 VAC	100 – 240 VAC	264 VAC

2-2 AC INPUT FREQUENCY

MINIMUM	NOMINAL	MAXIMUM
47 Hz	50 / 60 Hz	63 Hz

2-3 AC INPUT CURRENT

115 VAC INPUT	1.0 A maximum
230 VAC INPUT	0.6 A maximum

2-4 AC INRUSH CURRENT

AT FULL LOAD, 25 DEGREE C, COLD START

115 VAC, 60Hz INPUT	No damage shall be occurred and the input fuse shall not be blown up.
230 VAC, 50Hz INPUT	

2-5 PRIMARY CURRENT PROTECTION

An adequate internal fuse on the AC input line is provided.

2-6 CONFIGURATION

3 Conductor, < Live, Neutral, Frame-Ground >

2-7 POWER CONSUMPTION ON POWER SAVING MODE

LOAD	INPUT CONDITION	INPUT POWER REQUIREMENT
0 A	110 VAC 60 Hz	0.50 W maximum
	230 VAC 50 Hz	0.75 W maximum

1. SPECIFICATION

-- 2 / 4

3. OUTPUT REQUIREMENT

3-1	DC OUTPUT VOLTAGE	+ 12 V
3-2	MINIMUM LOAD CURRENT	0 A
3-3	NOMINAL LOAD CURRENT	3.5 A
3-4	NOMINAL OUTPUT POWER	42 W
3-5	TOTAL OUTPUT REGULATION	+/- 5 %
3-6	LINE REGULATION	+/- 2 %
		At nominal input voltage and full load
3-7	RIPPLE AND NOISE	120 mVp-p maximum
		At 20 MHz, and output parallel with 0.1uF & 10uF capacitors to ground Temperature at 25°C, and at 100-240 VAC input voltage
3-8	EFFICIENCY	80% minimum
		At nominal input voltage and full load
3-9	DROP-OUT	With half cycle input voltage drop-out, the unit shall operate within the prescribed voltages with a drop-out pulse repetition rate of 500mS. Conditions: Full load and nominal input AC voltage Limits: Meet the regulation requirement
3-10	PROTECTION	
	OVER-CURRENT PROTECTION	7A maximum with auto-recovery function
	OVER-VOLTAGE PROTECTION	21 VDC maximum with zener clamp
	SHORT-CIRCUIT PROTECTION	The adapter shall not be damaged by short the DC output to Ground.
	OPEN CIRCUIT PROTECTION	When primary power is applied with no load on any output level, no components damaged or hazardous conditions should be occurred.
3-11	REMARK	Unless otherwise specification output load Must be set at CC mode.

4. MECHANICAL REQUIREMENT

4-1 DIMENSION

102.0 (L) * 57.5 (W) * 34.5 (H) mm maximum

1. SPECIFICATION

-- 3 / 4

4-2 WEIGHT

290 g maximum

4-3 INPUT PLUG TYPE

3-PIN

4-4 OUTPUT CORD

WIRE: 18AWG/2C SPT-1, 1828mm

PLUG: JACK PLUG 5.5*2.1*12 mm

5. ENVIRONMENTAL REQUIREMENT

5-1 COOLING

Cooling shall be with natural convection cooling

5-2 OPERATING TEMPERATURE

0 °C TO 40 °C

5-3 STORAGE TEMPERATURE

-20 °C TO +60 °C

5-4 OPERATING HUMIDITY

20 ~ 85 % RH. NON-CONDENSING

5-5 STORAGE HUMIDITY

5 ~ 95 % RH. NON-CONDENSING

6. SAFETY REQUIREMENT

6-1 DIELECTRIC WITHSTANDING VOLTAGE TEST (HI-POT TEST)

Primary To Secondary: 1500VAC 10mA 1minute or 2121VDC 10mA 1 minute

Primary To GND: 1500VAC 10mA 1minute or 2121VDC 10mA 1 minute

6-2 GND CONTINUITY TEST

Primary inlet F.G to Secondary GND: 25A for 3 seconds, 100mΩ maximum

6-3 INSULATION RESISTANCE

Insulation resistance shall be more than 100MΩ at 500Vdc between Primary Live, Neutral line and secondary

6-4 LEAKAGE CURRENT

3.5mA maximum, at normal AC input voltage and frequency

6-5 SAFETY STANDARDS

Designed to meet UL /C-UL(UL60950-1), TUV-GS(EN60950-1),SAA(AS/NZS60950), BSMI (CNS14336),T-license(EN60950-1)

1. SPECIFICATION

-- 4 / 4

6-6 EMI STANDARDS

Designed to meet FCC(PART 15 CLASS B), CE(EN55022),C-TICK, BSMI(CNS13438),

7. RELIABILITY

7-1 MEAN TIME BETWEEN FAILURE (MTBF)

The power supply shall be designed and produced to have a mean time between failures (MTBF) of 50000 operating hours minimum conditions:80% maximum load at 25°C, nominal input voltage.

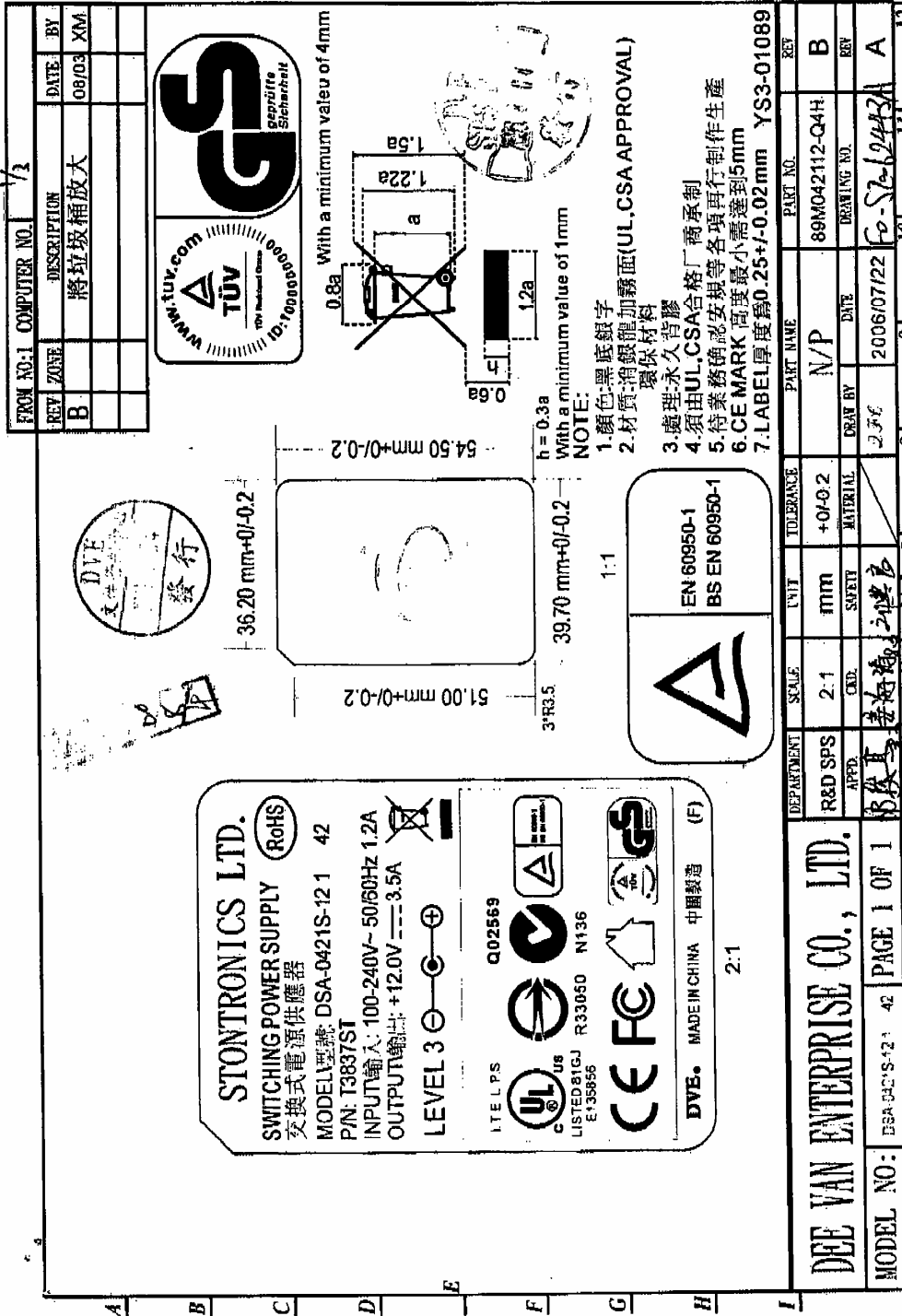
Standard:MIL-HDBK-217F

7-2 BURN-IN TEST

4 hours at 40°C maximum, nominal input voltage, 80% of maximum load.

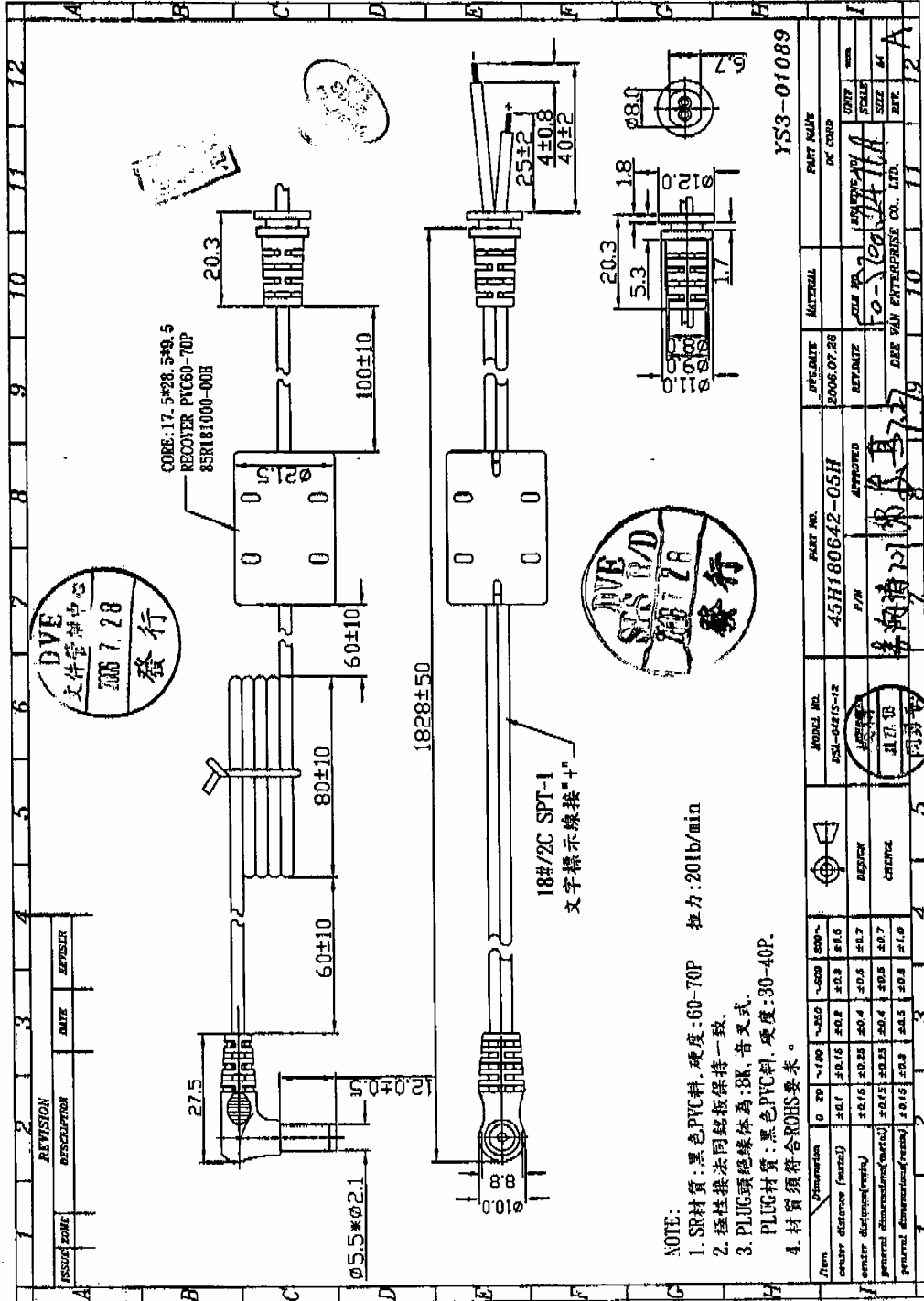
2. RATING LABEL DRAWING

- 1 / 1



3. DC OUTPUT CORD DRAWING

- 1 / 1



4. PRODUCT OUTLINE DRAWING

-- 1 / 1

