



英格爾科技股份有限公司

ENG ELECTRIC CO., LTD.

Revision: 02

Approval Sheet

CUSTOMER: WW73

CUSTOMER MODEL NO.: _____

ENG MODEL NO.: 3A-242WU12

ENG PART NO.: @3A-242WU12-021

DESCRIPTION: switching power supply

DATE: 2009/9/25

PREPARED	DESIGNED	CHECKED	APPROVED

APPROVAL DATE:

CUSTOMER APPROVAL		

總部：台灣桃園縣龜山鄉民生北路1段536號5樓

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TEL: 886-3-2121122 / FAX: 886-3-2121560

工廠：深圳市寶安區福永鎮白石廈中核集團B棟

Factory: Block B, Nuclear Group industrial District,

Baishixia, Fuyung Town, Bao'an, Shenzhen, China

TEL: 86-755-27307512, 27307515

工廠：中國廣東省東莞市塘廈鎮林村西湖工業區

Factory: Lin Village, Xi-Hu Industrial Area,

Dong-guan City, Guang-Dong, China

TEL: 86-769-87934928

SHENZHEN ENG ELECTRONICS CO., LTD.

FILE NO.: EN-RDS-O419

FILE: @3A-242WU12-021

SHEET: 01

1. Product characteristics

1.1 General Description

Model 3A-242WU12 is a universal switching-mode power supply, operating at input voltage 90VAC to 264VAC and output voltage of 12VDC with 2.0A DC load

1.2 Electric Characteristics

1.2.1 Input

No	ITEM	SPECIFICATION
1.	Rated input Voltage	AC100V-240V
	Vibration input Voltage Range	AC90V-264V
2.	Frequency Rated	50-60Hz
	Frequency Vibration	47-63Hz
3.	Input Rated Current	800mA RMS Max
	Inrush Current	30A Max .at 115vac cool start
		60A Max. at 230vac cool start
4.	Leakage current	0.25mA
5	Efficiency	82.4% Min. CEC Compliant
6.	Input power(no load)	<0.3W CEC Compliant

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1.2.2: Output:

No	ITEM	SPECIFICATION	
1.	Output Voltage	12VDC	
2.	Output max. current	2.0A	
3.	Output min. Current	0A	
4.	Line regulation	$\pm 1\%$	
5.	Output Voltage tolerance	$\pm 5\%$	
6.	Over voltage protection	18VDC MAX (Output shut down)	
7.	Short circuit protection	Output shut down and auto restart	
8.	Ripple Voltage	120mV (p-p)	Input :(100V-240VAC)
			Output:full load

Note: Ripples shall be measured with a 10uF electrolytic capacitor paralleled with a high-frequency 0.1uF ceramic capacitor across the output. The oscilloscope's bandwidth shall be set to 20MHz.

1.2.3 HI-POT SPECIFICATION

Input to output : 3000VAC or 4242VDC 10mA 1 minute.

1.2.4 Insulation resistance:

Input to output: 500Vdc to test the input to output resistance not be less 100M Ohm

1.2.5 Safety meet: PSE

1.2.6 EMI standard : FCC class B , CE ,VCCI – II

1.2.7 PB-free standard:RoHS Compliant

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FILE NO.: EN-RDS-O419

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03

1.3 Mechanical characteristics

1.3.1 AC Plug: INLET Type:UL

1.3.2 DC cord:

(1) Bending test: Life 1000 times 100% guarantee. Swings 120 from

Left to right loading weight 200g , 40 cycle/minute.

(2) Pull test : DC cord and plug ,weight 6kg for 1 minute.

1.3.3 Cord length and output plug: See Reference Att.4

1.3.4 Weight : _____ g

1.3.5 Case Size: (L)80 X (W)53.6X (H)35mm

1.3.6 Normal operating temperature and humidity

1.3.7 Temperature

Operating: 0°C to 40°C

Storage : -10°C to 70°C

1.3.8 Humidity

Operating : 20% to 80%.

Storage: 10% to 90%

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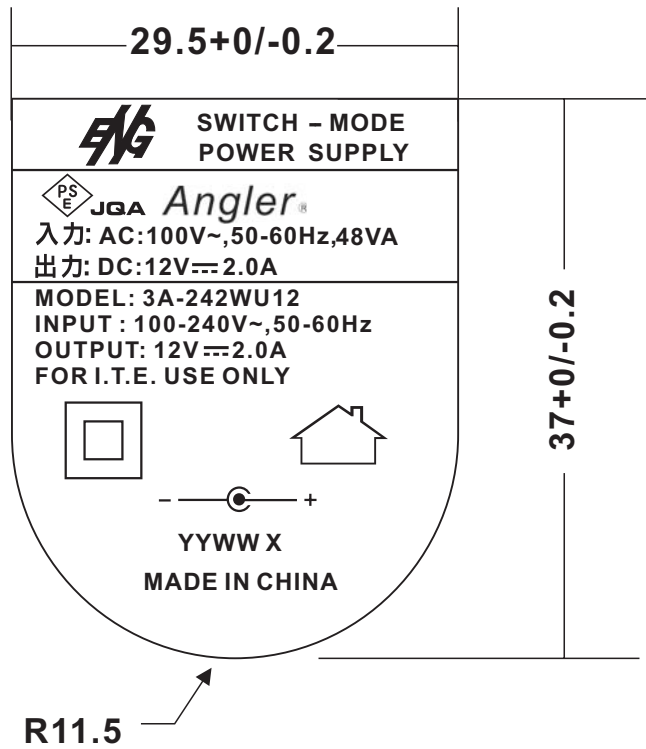
FILE NO.: EN-RDS-0419

FILE: @3A-242WU12-021

SHEET: 04

2.Attachment:

- (Att.1) Label**
- (Att.2) Outdrawing**
- (Att.3) Package**
- (Att.3.1) Package flow chart**
- (Att.4) Dc cord drawing**



UNIT: mm

YYWW X YY:YEAR WW:WEEK X=S or A(S:FU YONG A:DONG GUAN)

ALUMINUM NAMEPLATE: ○ BLACK WORD ON SILVER BASE

○ SILVER WORD ON BLACK BASE

METALIZED POLYESTER: ○ BLACK WORD ON SILVER BASE

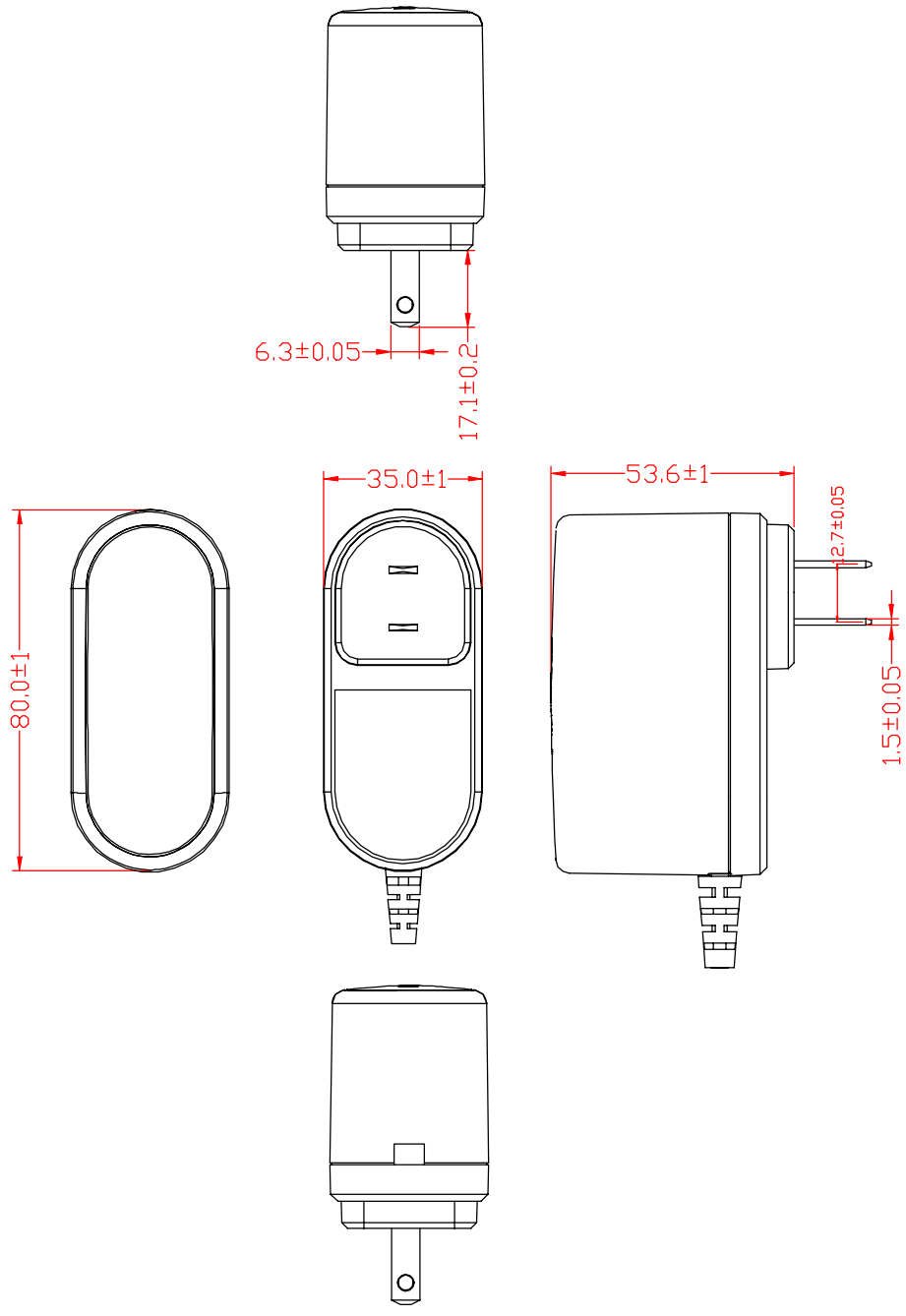
(SILVER MATTE) ● SILVER WORD ON BLACK BASE

***@3A-242WU12-021**

TOLERANCE				

DESIGNED	CHECKED	APPROVED	TITLE		DATE
<i>Tanll</i>	<i>Hech</i>	<i>Zhung</i>	LABEL		
			UNITS	mm	DRAWING No. @N20-WW7300-A05
			SCALE	2:1	
SHENZHEN ENG ELECTRONICS CO., LTD.			DRAWING NAME		REVISION 02

Att.2



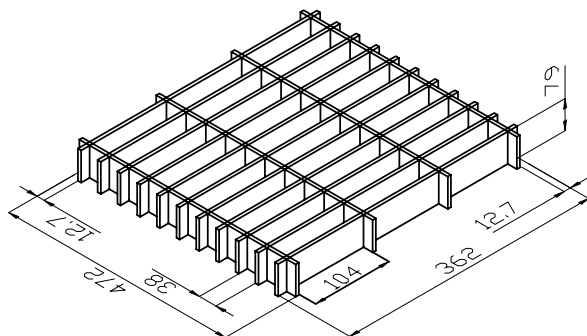
TOLERANCE				

DESIGNED	CHECKED	APPROVED		TITLE	DATE
Dragon	Chen Mgr	Bill		UNITS	OUTDRAWING
				SCALE	
SHENZHEN ENG ELECTRONICS CO., LTD.				DRAWING No.	REVISION
				122300/01	01
				DRAWING NAME	
				UL CASE	

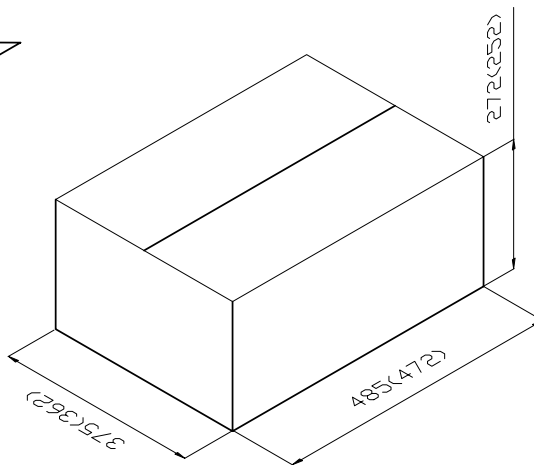
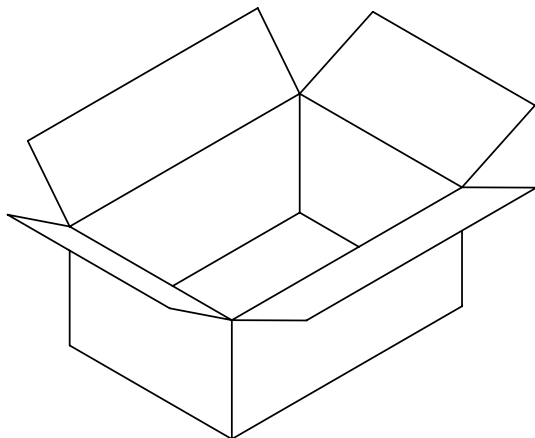
RDS-041 07.03

ATT.3

CARTON SIZE: 485X375X272mm
 紙箱尺寸: 485X375X272mm
 PARTITION BOARD: 472X362X3mm(4pcs)
 CROSS-CONNECTING BOARD: 472X79X6mm(12pcs)
 CROSS-CONNECTING BOARD: 362X79X6mm(33pcs)
 Q'TY: 90pcs(30x3)
 數量: 90pcs(30x3)



CELL PARTITION

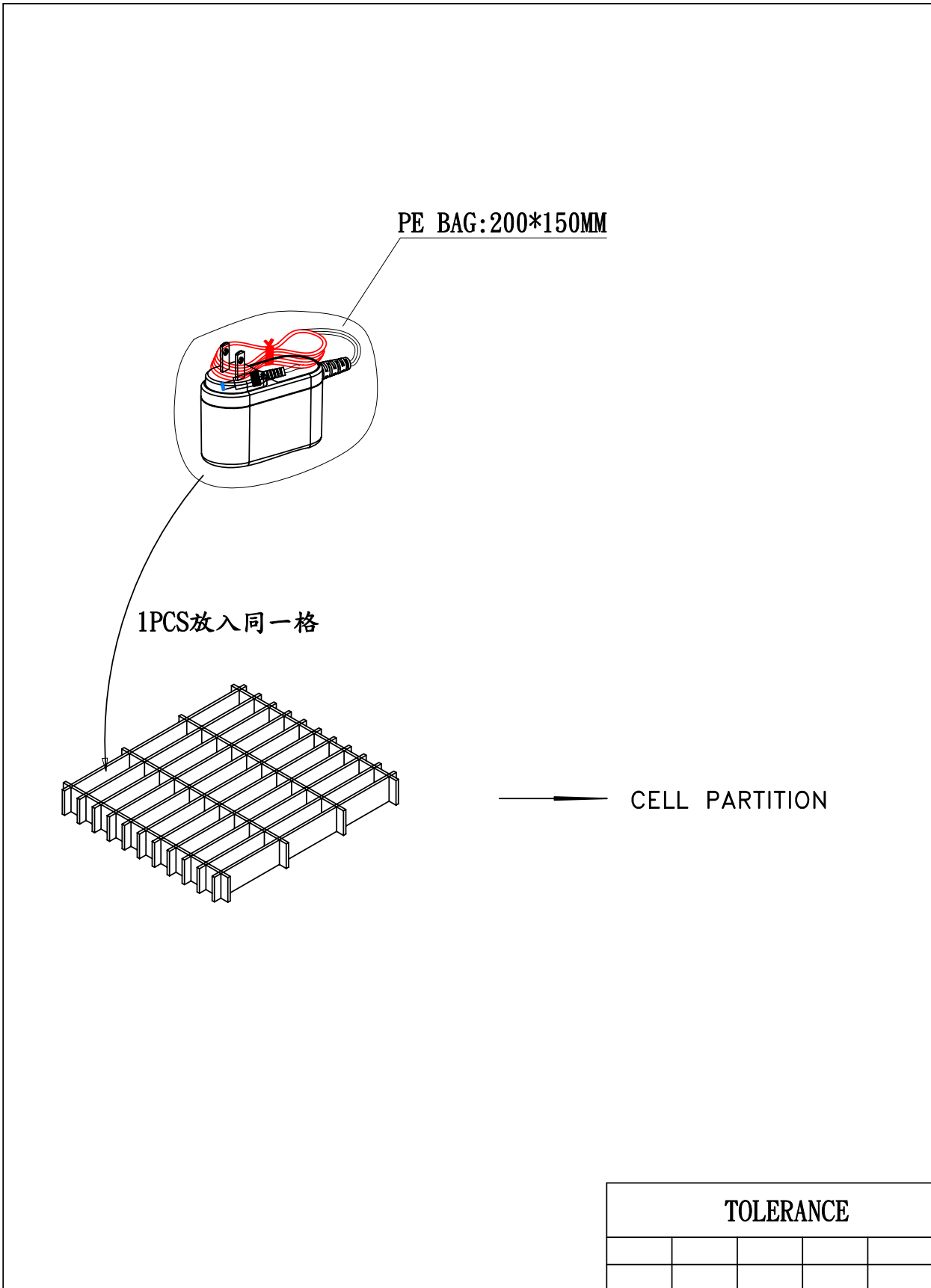


The tolerance of the internal dimensions of the carton is +7/-0
 紙箱內度尺寸公差為+7/-0

TOLERANCE				

DESIGNED	CHECKED	APPROVED		TITLE	DATE
Tanll	Hec	Zhurg		PACKAGE	07-03-12
			UNITS	DRAWING No.	REVISION
			SCALE	PBG-3030-V-52	
SHENZHEN ENG ELECTRONICS CO., LTD.				DRAWING NAME	01
				BG-3030-V-52	

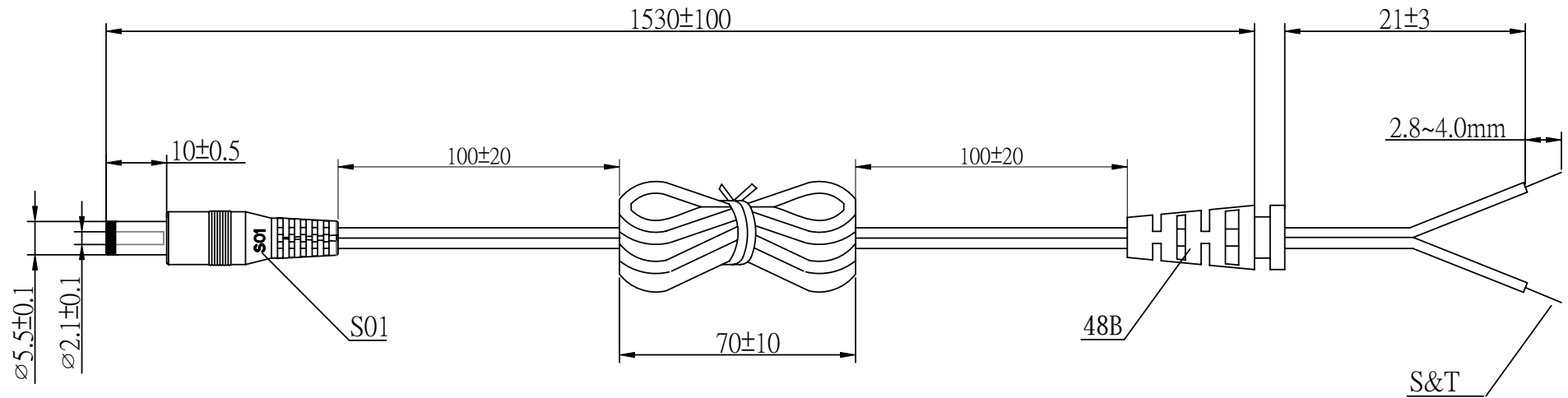
ATT.3.1



TOLERANCE				

DESIGNED	CHECKED	APPROVED		TITLE	DATE
Tanll	Hec	Zhurg		UNITS mm	PACKAGE FLOW CHART
SHENZHEN ENG ELECTRONICS CO., LTD.			SCALE	DRAWING No. @3A-242WU12-021	REVISION 01
				DRAWING NAME 150*200	

Att.4

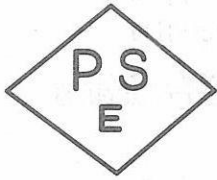


#20AWGX2C UL2468 HAVE ON WORD WIRE IN OUTER, NO WORD WIRE IN INNER(有字接外，無字接內)
 OD: $\phi 1.9 \times 3.8$

TOLERANCE				

Parameter request	
搖擺測試 VIBRATION TEST	a. $\pm 60^\circ$ b. 吊重200g WEIGHT 200g c. 40回/分 40 ROUND/MINUTE d. 1000次/最少 OVER 1000 COUNT MIN

DESIGNED	CHECKED	APPROVED	UNITS		TITLE	DATE
LQiang	HeCH	Zhurg		mm	DC CORD	09/07/20
SHENZHEN ENG ELECTRONICS CO., LTD.					DRAWING No.	REVISION
					SCALE	
					DRAWING NAME	
					31-48BS01-03B-00	



JQA

JQA 受付番号: 1340033464

JQA ファイル番号: 270-60203D1

電気用品安全法に基づく適合性検査

適合性検査合格書

Certificate of Conformity Assessment

Dongguan ENG Electronics Co.,Ltd. 様

合格書番号: JQE11575

Certificate No.

交付年月日: March 1, 2007

Certificate date

有効期限: March 1, 2007

The period of effective to February 29, 2012

東京都世田谷区砧1丁目21番25号

1-21-25, Kinuta, Setagaya-Ku, Tokyo, Japan

財団法人 日本品質保証機構

Japan Quality Assurance Organization

総合製品安全部門

部門長 塚本 徹也

Tetsuya Tsukamoto

Executive Officer, Product Safety



貴社お申込の下記の特定電気用品及び製造工場は、電気用品安全法第8条第1項に規定する技術基準及び法第9条第2項の経済産業省令で定める基準に適合していることを証明します。

This is to certify that the following Specified Electrical Appliances and Materials and the factory which you applied for has been complied with the technical requirements stipulated in Article 8, Paragraph 1 and the requirements in accordance with METI Ordinance stipulated in Article 9, Paragraph 2 on the Electrical Appliances and Materials Safety Law.

記

description

申請者の名称 : Dongguan ENG Electronics Co.,Ltd.

Applicant name

申請者の住所 : No.5 Xi-Fa Rd. Lin Village, Xi-Hu Industrial Area, Tang Xia Town,

address Dong-Guan City, Guang-Dong Province, China.

製造工場の名称 : Dongguan ENG Electronics Co.,Ltd.

Factory name

製造工場の住所 : No.5 Xi-Fa Rd. Lin Village, Xi-Hu Industrial Area, Tang Xia Town,

address Dong-Guan City, Guang-Dong Province, China.

特定電気用品名 : 直流電源装置

Name of Specified Electrical Appliances and Materials : DC power supply units

製品の型式の区分 : 別紙参照

Type classification of product : Refer to the attached.

検査の方法 : 経済産業省令第15条及び技術基準(第1項、別表第8)による。

The method of Inspection:

The technical requirements stipulated in Paragraph 1, appendix 8 and Article 15 stipulated in the METI Ordinance are applied.

以上

end

**JQA**

JQA 受付番号: 1340033464

JQA ファイル番号: 270-60203D1

電気用品安全法に基づく適合性検査

合格書番号: JQE11575

Certificate No.

製品の型式の区分 (直流電源装置)

Type classification of product (DC power supply units)

型式の区分 (Type Classification)	
要素 (Factor)	区分 (Classification)
定格入力電圧 Rated input voltage	(1) 125V以下のもの (1) 125 V or less
入力側の定格容量 Rated capacity on input side	(5) 40VAを超え50VA以下のもの (5) Exceeding 40 VA, and less than or equal to 50 VA
定格周波数 (変圧器を有するものの場合に限る。) Rated frequency(it has power transformer only)	(1) 50Hzのもの (2) 60Hzのもの (1) 50Hz (2) 60Hz
交流用端子 AC Terminal	(2) ないもの (2) Without A.C. Terminal
直流定格電圧 Rated DC voltage	(1) 15V以下のもの (1) 15 V or less
変圧器 Transformer	(1) あるもの (1) With transformer
変圧器の巻線の絶縁の種類 Transformer winding insulation class	(2) E種のもの (2) Class E
直流電圧の調整装置 DC voltage adjusting mechanism	(2) ないもの (2) Without adjusting mechanism
回路の保護機構 Circuit protection device	(1) あるもの (1) With circuit protection device
器体スイッチ Body switch	(2) ないもの (2) Without body switch
器体スイッチの操作の方式 Switching operation of body switch	—
器体スイッチの接点の材料 Body switch contact material	—
外郭の材料 Outer case material	(2) 合成樹脂のもの (2) Plastic
用途 Application	(1) 電池充電用のもの (4) その他のもの (1) For battery charging (4) Others
電源電線と器体との接続の方式 Method of attaching cord	(2) 接続器利用のもの (2) Coupling device
二重絶縁 Double insulation	(2) 施していないもの (2) Without double insulation

◎ 区分の組合せはありません。

There is no combination of classification.