



英格爾科技股份有限公司

ENG ELECTRIC CO., LTD.

Revision: 01

Approval Sheet

CUSTOMER: AF55A





CUSTOMER MODEL NO.: _____

ENG MODEL NO.: 3A-163WP12

ENG PART NO.: @3A-163WP12-146

DESCRIPTION: Switching Power Supply

DATE: 2012-2-15

PREPARED	DESIGNED	CHECKED	APPROVED
			

APPROVAL DATE:

CUSTOMER APPROVAL		

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Factory: Lin Village, Xi-Hu Industrial Area,
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SHENZHEN ENG ELECTRONICS CO., LTD.

FILE NO.: EN-RDS-T972

FILE: @3A-163WP12-146

SHEET: 01

1 Product Characteristics:

1.1 General Description

Model 3A-163WP12 is a universal switching-mode power supply, operating at input voltage 90VAC to 264VAC and output voltage of 12VDC with 1.25A 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	600mA RMS Max
	Inrush Current	40A Max .at 115vac cool start
		80A Max. at 230vac cool start
4.	Leakage current	<0.25mA
5.	Efficiency	79.27% Min Average CEC Compliant
6.	Standby 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	1.25A
3.	output min. Current	0A
4.	Line regulation	± 1%
5	Output Voltage Tolerance	± 5%
6	Short circuit protection	Output shut down and auto restart
7	Output Voltage Protection	The output voltage shall be clamped by internal protection zener
8	Ripple Voltage	120mV (P-P)
		Input: (100V-240V AC) Output:full load

Note:Ripples shall be measured with a 10uFelectrolytic 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 approved :

Type(Marking)	Country/Region	Standard
UL/CUL	USA/Canda	Safety : UL 60950-1
		Safety : CSA C22.2 No 60950-1-07
FCC	USA	EMI : FCC Part 15, SubpartB , Class B
CB	IEC	Safety : IEC 60950-1
GS	Germany	Safety : EN 60950-1
CE	Europe	In accordance with the council directive 2004/108/EC Adapter Standard : EN61204-3 EMI : EN55022 EMS : EN55024 ErP 278/2009
RCM	Australia / New Zealand	Safety : SAA - AS/NZS 60950.1 EMI : C-TICK - AS/NZS CISPER22
R-MEPS		AS/NZS 4665.1:2005/Amd 1 : 2009 and AS/NZS 4665.2:2005/Amd 1 : 2009

1.2.6 PB-free standard: RoHS Compliant

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1.3 Mechanical Characteristics

1.3.1 AC Plug: Interchangeable PIN (VDE)

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 : 123 g

1.3.5 Case Size: (L)74 X (W) 43.5X (H) 35.3mm

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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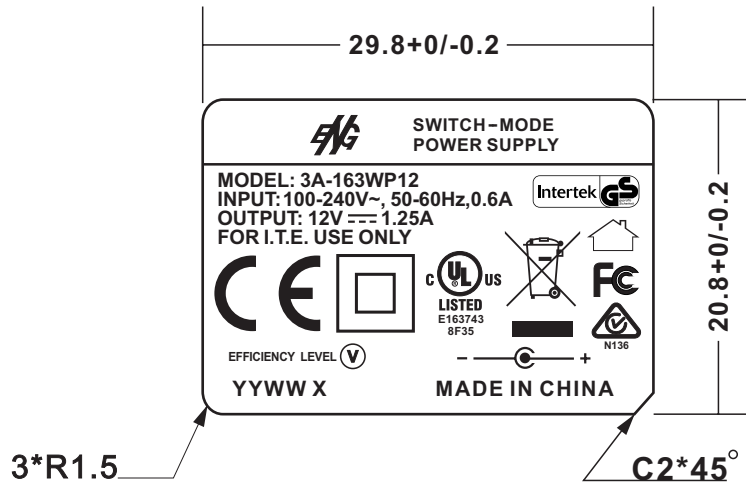
FILE NO.: EN-RDS-T972

FILE: @3A-163WP12-146

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 (銀底黑字)
鋁板

○ SILVER WORD ON BLACK BASE (黑底銀字)

METALIZED POLYESTER: ○ BLACK WORD ON SILVER BASE (銀底黑字)
消銀龍

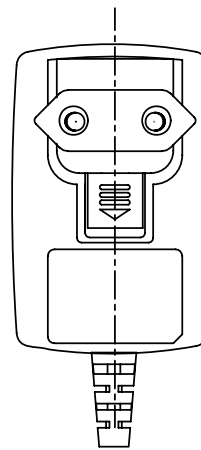
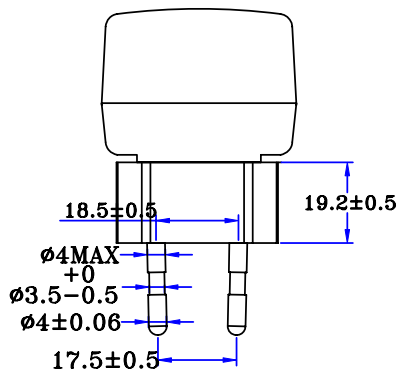
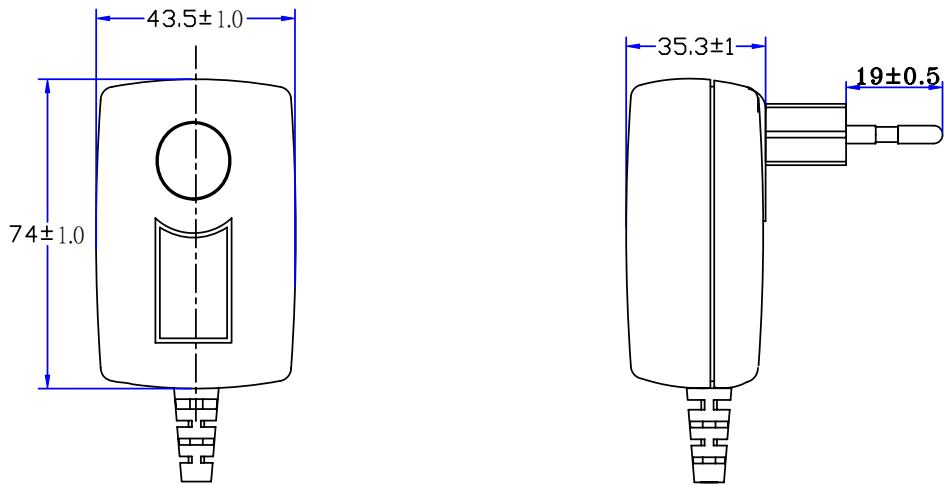
(SILVER MATTE) ● SILVER WORD ON BLACK BASE (黑底銀字)

TOLERANCE				

@3A-163WP12-146

DESIGNED	CHECKED	APPROVED		TITLE	DATE
Tanll	Luozm	LNB		UNITS	LABEL DRAWING No. @N20-AF55A0-A16
			mm	DRAWING NAME	
SHENZHEN ENG ELECTRONICS CO., LTD.			SCALE	1014	01
			2:1		

Att.2

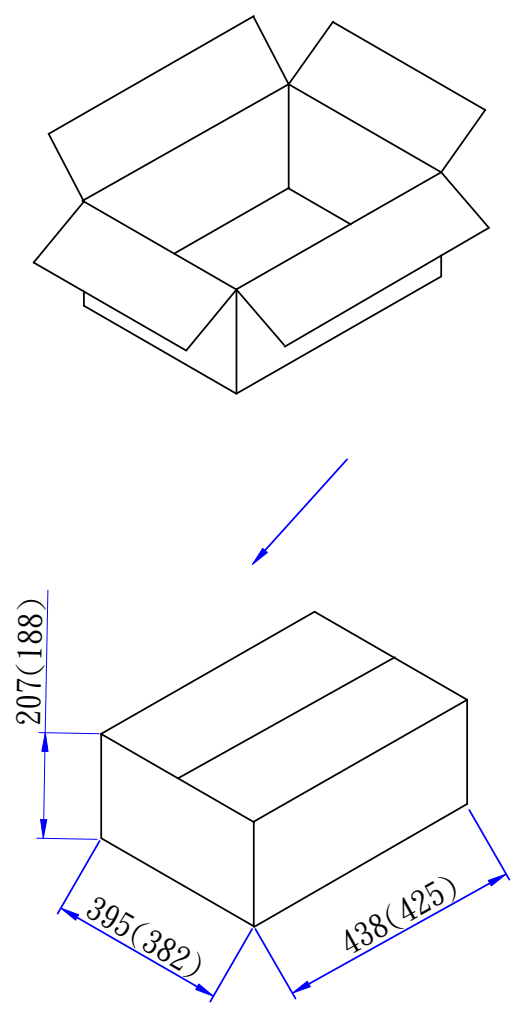


TOLERANCE				

DESIGNED	CHECKED	APPROVED		TITLE	OUTDRAWING	DATE
<i>Hump</i>	<i>Shaosy</i>	<i>Zhurg</i>		UNITS	DRAWING No.	101415-005
SHENZHEN ENG ELECTRONICS CO., LTD				SCALE	DRAWING NAME	REVISION
					101415	01

Att.3

CARTON MATERIAL:A=B(6mm)
 CARTON SIZE: 438X395X207mm
外箱尺寸 438X395X207mm
 Q'TY: 80pcs(20x4)
数量 80pcs(20x4)

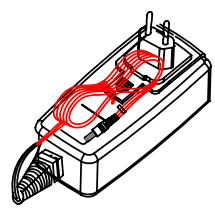


The tolerance of the internal dimensions of the carton is +7/-0
 外箱內度尺寸公差為+7/-0

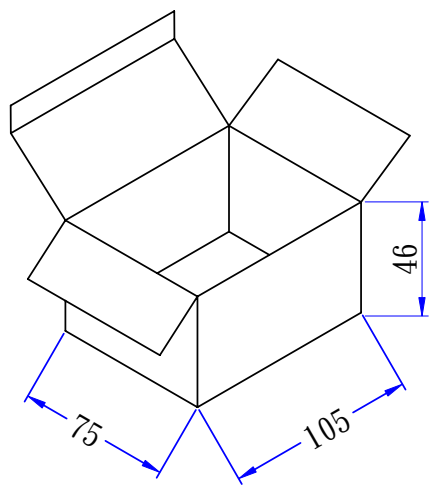
TOLERANCE				

DESIGNED	CHECKED	APPROVED			TITLE	DATE
Tanll	Luozm	LNB			UNITS	mm
SHENZHEN ENG ELECTRONICS CO., LTD.					DRAWING No.	REVISION
					SCALE	
					DRAWING NAME	
					E7-2040-H-50	

Att.3.1



PRODUCT

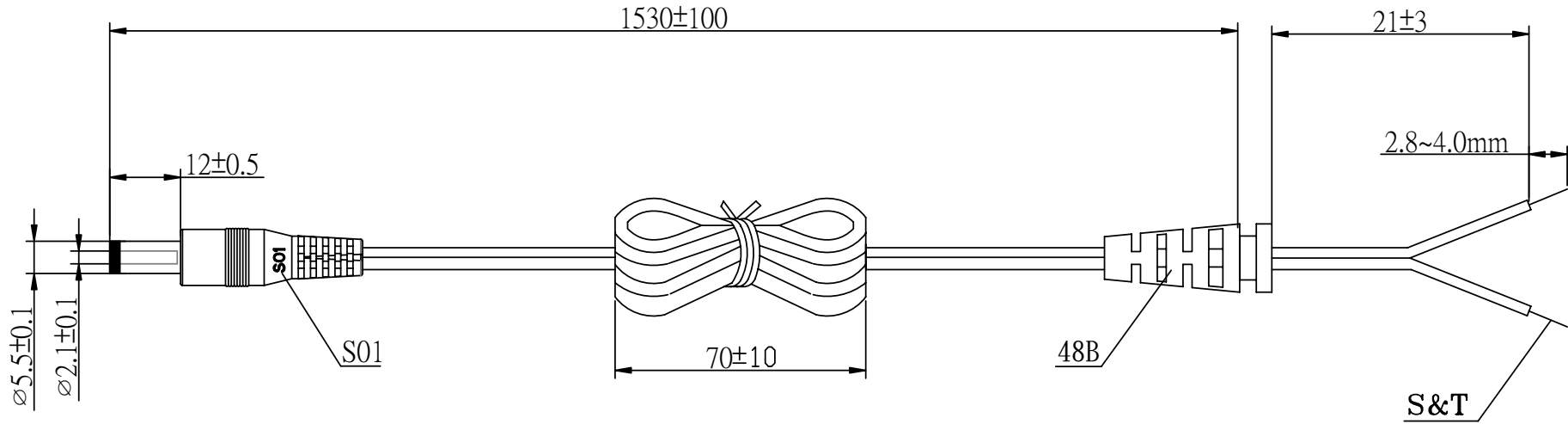


WHITE BOX:147#

The tolerance of the external dimensions of the white box is ± 1
 小禮盒外度尺寸為 ± 1

TOLERANCE				

DESIGNED	CHECKED	APPROVED		TITLE	DATE
Tan11	Luozm	LNB		PACKAGE FLOW CHART	12/02/15
			UNITS	DRAWING No.	
			mm	@3A-163WP12-146	
			SCALE	DRAWING NAME	REVISION
SHENZHEN ENG ELECTRONICS CO., LTD.				147#	01



#20AWGX2C UL2468
OD: $\phi 1.9 \times 3.8$

HAVE ON WORD WIRE IN OUTER, NO WORD WIRE IN INNER (有字接外，無字接內)

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		TITLE		DATE
LQiang	Luozm	LNB		UNITS	DC	CORD
SHENZHEN ENG ELECTRONICS CO., LTD.				SCALE	DRAWING No.	REVISION
					@3A-163WP12-146	01
					DRAWING NAME	
					31-48BS01-03B-00	