

# ENG ELECTRIC CO., LTD.

FILE NO.: EN-RDS-T182

FILE: 3A-505DB05-025

產品承認書

SHEET: 01

## 1 Product Characteristics:

### 1.1 General Description

Model 3A-505DB05 is a universal switching-mode power supply, operating at input voltage 90VAC to 264VAC and output voltage of +5VDC with 6.5A DC load

### 1.2 Electric Characteristics

#### 1.2.1 Input

No	ITEM	SPECIFICATION
1.	Rated input Voltage	AC100-240V
	Vibration input Voltage Range	AC90-264V
2.	Frequency Rated	50-60Hz
	Frequency Vibration	47-63Hz
3.	Input Rated Current	1.2A RMS Max
	Inrush Current	No damage at 240VAC Cold Start
4.	Leakage Current	<3.5mA
5.	Efficiency	84.0% Min(CEC Level V Compliant)
6.	No Load Consumption	0.5W Max (CEC Level V Compliant)

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## 1.2.2 Output:

No	ITEM	SPECIFICATION
1.	Output Voltage	5VDC±5%
2.	Output max. Current	6.5A
3.	Output min. Current	0A
4.	Line regulation	±1%
5.	Output Overshoot	5VDC Max
6.	Short Circuit Protection	Output shut down and auto restart
7.	Over Temperature Protection	There shall be no ignition or smoke and deformation of case
8.	Ripple Voltage	150mV (p-p) (100-240V AC Input) (1)

(1).Measuring is done by 20MHz bandwidth oscilloscope and terminated each output with a 10uf aluminum electrolytic capacitor and 0.1uf ceramic capacitor.

## 1.2.3 HI-POT SPECIFICATION

Input to output : 1500VAC 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
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

## 1.2.6 PB-free standard: RoHS Compliant

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## 1.3 Mechanical Characteristics

1.3.1 AC Plug : INLET IEC320 /C14 Type.

1.3.2 DC cord:

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

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 : 230 g

1.3.5 Case Size: (L)116 X (W)50X (H)31mm

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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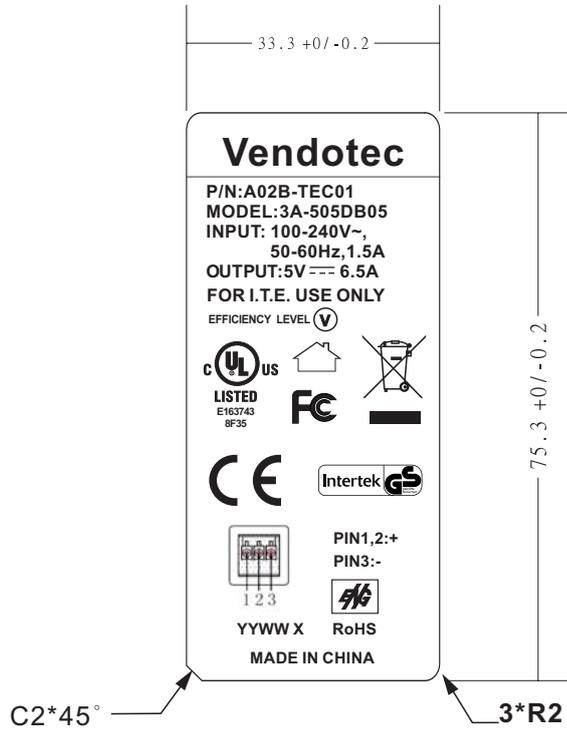
SHEET: 04

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## 2.Attachment:

- (Att.1) Label
- (Att.2) Outdrawing
- (Att.3) Package
- (Att.3.1) Package flow chart
- (Att.4) DC cord drawing
- (Att.5) AC cord drawing
- (Att.6) Electrical test report

Att.1



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

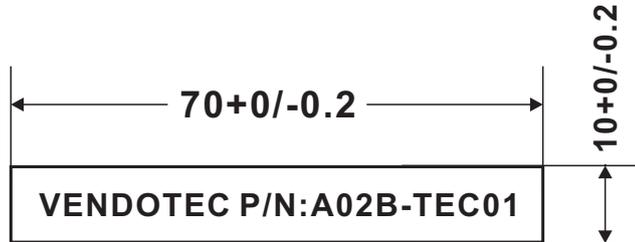
○ SILVER WORD ON BLACK BASE (黑底銀字)

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				
<b>3A-505DB05-025</b>							
DESIGNED	CHECKED	APPROVED	TITLE			DATE	
<i>Hamp</i>	<i>Lichao</i>	<i>Linaibo</i>			<b>LABEL</b>		
			UNITS	mm	DRAWING No. <b>N20-192000-B42</b>		12/09/21
			SCALE	1:1			
ENG ELECTRIC CO., LTD.			DRAWING NAME <b>6008</b>			REVISION 03	

Att.1.1



NOTES:

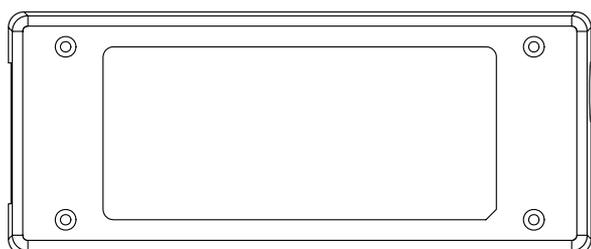
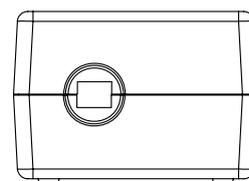
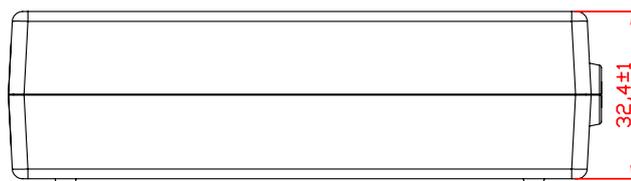
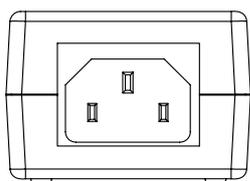
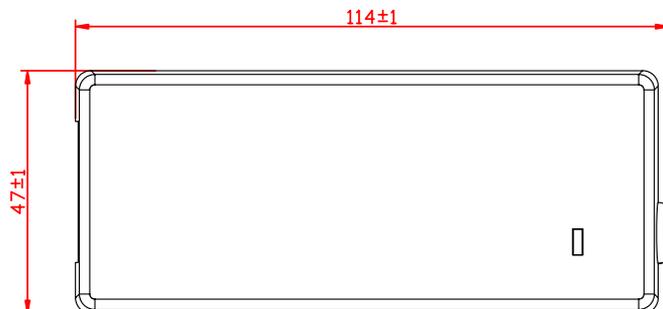
- Material: BOND PAPER (銅版紙)
- BLACK WORD ON WHITE BASE(白底黑字)

**3A-505DB05-025**

TOLERANCE				

DESIGNED	CHECKED	APPROVED		TITLE	DATE
<i>Hump</i>	<i>Lichao</i>	<i>Lnt</i>		UNITS	
			SCALE	DRAWING No.	12/09/21
ENG ELECTRIC CO., LTD.			1:1	N54-192000-A34	
				DRAWING NAME	REVISION
				7010	01

Att.2



TOLERANCE				

DESIGNED	CHECKED	APPROVED		TITLE	DATE
LQiang	LiC	LNB		UNITS	OUTDRAWING
			SCALE	DRAWING No.	10/11/03
ENG ELECTRIC CO., LTD.				DRAWING NAME	REVISION
				600811-002	01
				600811	