

CUSTOMER: Rapidmax

PART NUMBER:



APPROVAL SHEET

FOR

SWITCHING ADAPTER

MODEL NO.

DSA-6PFE-05 FEU 050100

ORDER NO: SP-239454

承認書確認后請簽回一份

CUSTOMER APPROVED SIGNATURE

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DEE VAN ELECTRONICS (LONGCHUAN) CO.,LTD.

MEICHUN INDUSTRIAL DISTRICT LONGCHUAN COUNTRY HEYUAN GUANGDONG
PR. CHINA.

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APPROVAL BY	SAFETY	DIRECTOR	ENGINEER	PREPARED
聶建華 2013/03/19	陳 樂 2013/03/19		雷斌斌 2013/03/19	黃 勇 2013/03/15

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
2013.03.15	A	A	A	A	A	A	A

REVISION CHANGE DESCRIPTION

ITEM	REV	DESCRIPTION

1. SPECIFICATION

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0. REVISION CHANGE DESCRIPTION

Revision	Description	Date
A	Initial release	2013.03.15

1. GENERAL DESCRIPTION

This specification defines the input, output, performance characteristics, environment, noise and safety requirements for a 5 watts switching type power adapter.

The adapter input/output are full range AC input and +5V DC with 5 watts maximum 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

NOMINAL AC INPUT VOLTAGE	0.2 A maximum
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2-4 AC INRUSH CURRENT

AT FULL LOAD, 25 DEGREE C, COLD START

NOMINAL AC INPUT VOLTAGE	No damage shall be occurred and the input fuse shall not be blown up.
--------------------------	---

2-5 CONFIGURATION

Wall-mount type, EU-pin, 2 Conductors, < Live, Neutral >

2-6 POWER CONSUMPTION ON POWER SAVING MODE

LOAD	INPUT CONDITION	INPUT POWER REQUIREMENT
0 A	115 VAC 60 Hz	0.3W maximum
0 A	230 VAC 50 Hz	0.3W maximum

1. SPECIFICATION

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3. OUTPUT REQUIREMENT

3-1	DC OUTPUT VOLTAGE	+5 V
3-2	MINIMUM LOAD CURRENT	0.05 A
3-3	NOMINAL LOAD CURRENT	1 A
3-4	NOMINAL OUTPUT POWER	3 W
3-5	TOTAL OUTPUT REGULATION	+/- 5 %
3-6	LINE REGULATION	+/- 2%
3-7	RIPPLE AND NOISE	100 mVp-p maximum At 20 MHz, and output parallel with 0.1uF & 10uF capacitors to ground Temperature at 25°C, At 115/230VAC AC input voltage
3-8	AVERAGE EFFICIENCY	68.17% minimum
		Meet standard for energy star level: V
		ERP : 2009/125/EC
3-9	HOLD-UP TIME	5 mS minimum
		At nominal input AC voltage and full load
3-10	TURN-ON DELAY	3Seconds maximum
3-11	PROTECTION	
	OVER-CURRENT PROTECTION	2 A maximum with auto-recovery function
	OVER-VOLTAGE PROTECTION	7.5VDC maximum
	SHORT-CIRCUIT PROTECTION	The adapter shall not be damaged by short the DC output to Ground.
3-12	REMARK	Unless otherwise specification output load must set at CR mode.

1. SPECIFICATION

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4. MECHANICAL REQUIREMENT

4-1 DIMENSION

67 (L) * 26 (W) * 72.2 (H) mm maximum

4-2 WEIGHT

80 g maximum

4-3 INPUT PLUG TYPE

Wall-mount type, EU-pin, 2 Conductors, < Live, Neutral >

4-4 OUTPUT CORD

WIRE: 24AWG/2C 2468,1500mm

PLUG: JACK PLUG 5.5*2.1*9.5mm

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

5-6 VIBRATION TEST REQUIREMENT

(Non-operating, with packing) Reference to IEC. 68-2-6

Test conditions		Acceptance criteria
1.Frequency	5 ~ 500 Hz	NOMINAL functional test should be satisfied after the test
2.Sweep	2houre. For each axis (X, Y, Z)	
3.Acceleration	0.6G (5~50 Hz, peak - peak), 1.5G (50~500 Hz, peak - peak)	
4.Displacement	0.4 mm (5~50 Hz)	

1. SPECIFICATION

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6. SAFETY REQUIREMENT

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

Primary To Secondary: 3000VAC 10mA 1minute or 4242VDC 10mA 1 minute

6-2 LEAKAGE CURRENT

0.25mA maximum, at nominal AC input voltage and frequency

6-3 SAFETY STANDARD

Designed to meet TUV-GS(EN60950-1)

6-4 EMI STANDARD

Designed to meet CE(EN55022)

6-5 SURGE:2KV

7. RELIABILITY

7-1 MEAN TIME BETWEEN FAILURE (MTBF)

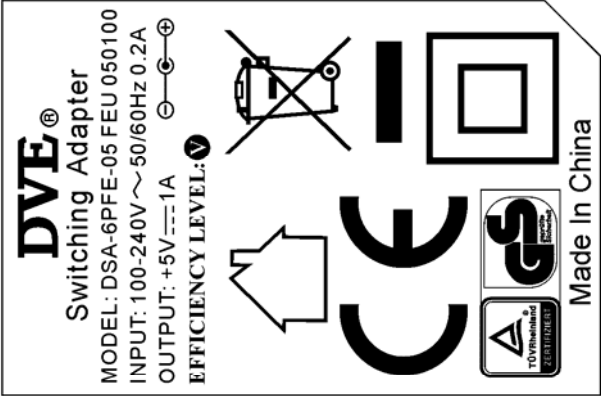
The power supply shall be designed and Prediction to have a mean time between failures (MTBF) of 50000 operating hours minimum and conditions:

@115VAC/230VAC, full load, 0°C ~40°C, MTBF calculation meet Telcordia Technologies Special Report SR-332 (Issue 2).

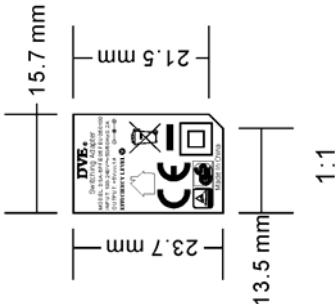
2. RATING LABEL DRAWING

-- 1 / 1

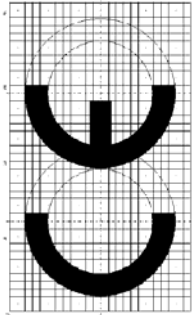
FROM NO.:1		COMPUTER NO.:	
REV	ZONE	DESCRIPTION	DATE
A			13/03/06
			BY
			HY



DVE®
Switching Adapter
MODEL: DSA-6PFE-05 FEU 050100
INPUT: 100-240V ~ 50/60Hz 0.2A
OUTPUT: +5V --- 1A
EFFICIENCY LEVEL:



15.7 mm
23.7 mm
13.5 mm
21.5 mm
1.22a
0.8a
1.5a
h = 0.3a
with a minimum value of 1mm
with a minimum value of 4mm





4:1

NOTE:

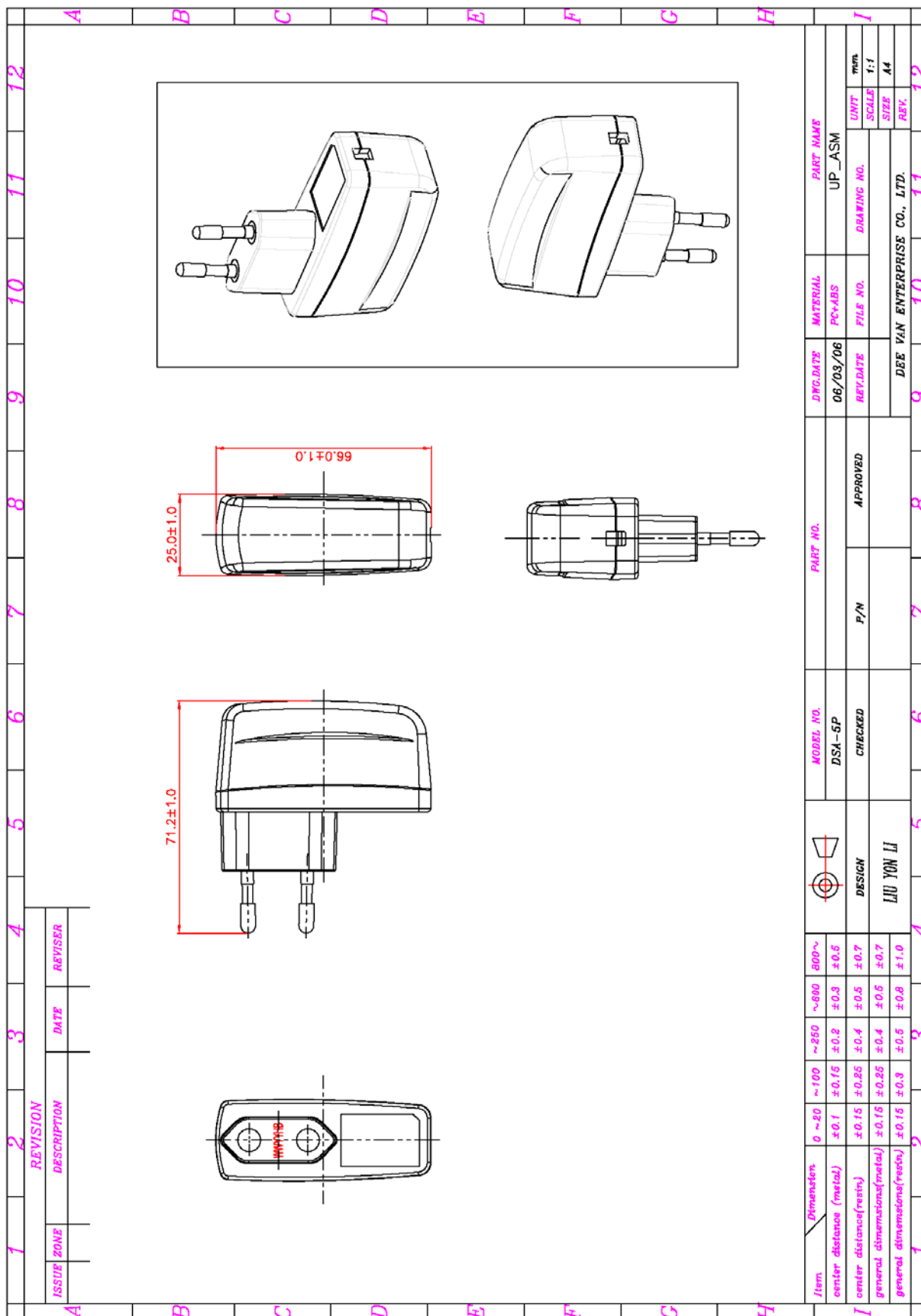
- 顏色: 銀底黑字
- 消銀龍加亮面 (UL, CSA APPROVAL)
- 環保材料
- 處理: 自粘性
- 須由 UL, CAS 合格廠商承制
- 儲存溫度: -20°C 及 +90°C 之範圍
- 待業務確認安規等各項再行制作生產
- 回形及 CE LOGO 高度最小需達到 5mm
- 禁止使用 DVE 所禁用之危害物質
- LABEL 厚度為 0.25 ± 0.02 mm

DEPART	M ENT	UNIT	CASE	PART NO.	SALE	DIMENSIONAL TOLERANCE
R&D	SPS	mm				+0-0.2mm
APPD.	BY	CHD.	BY	DWG.	BY	備註
			HY			

FM-336(V0)

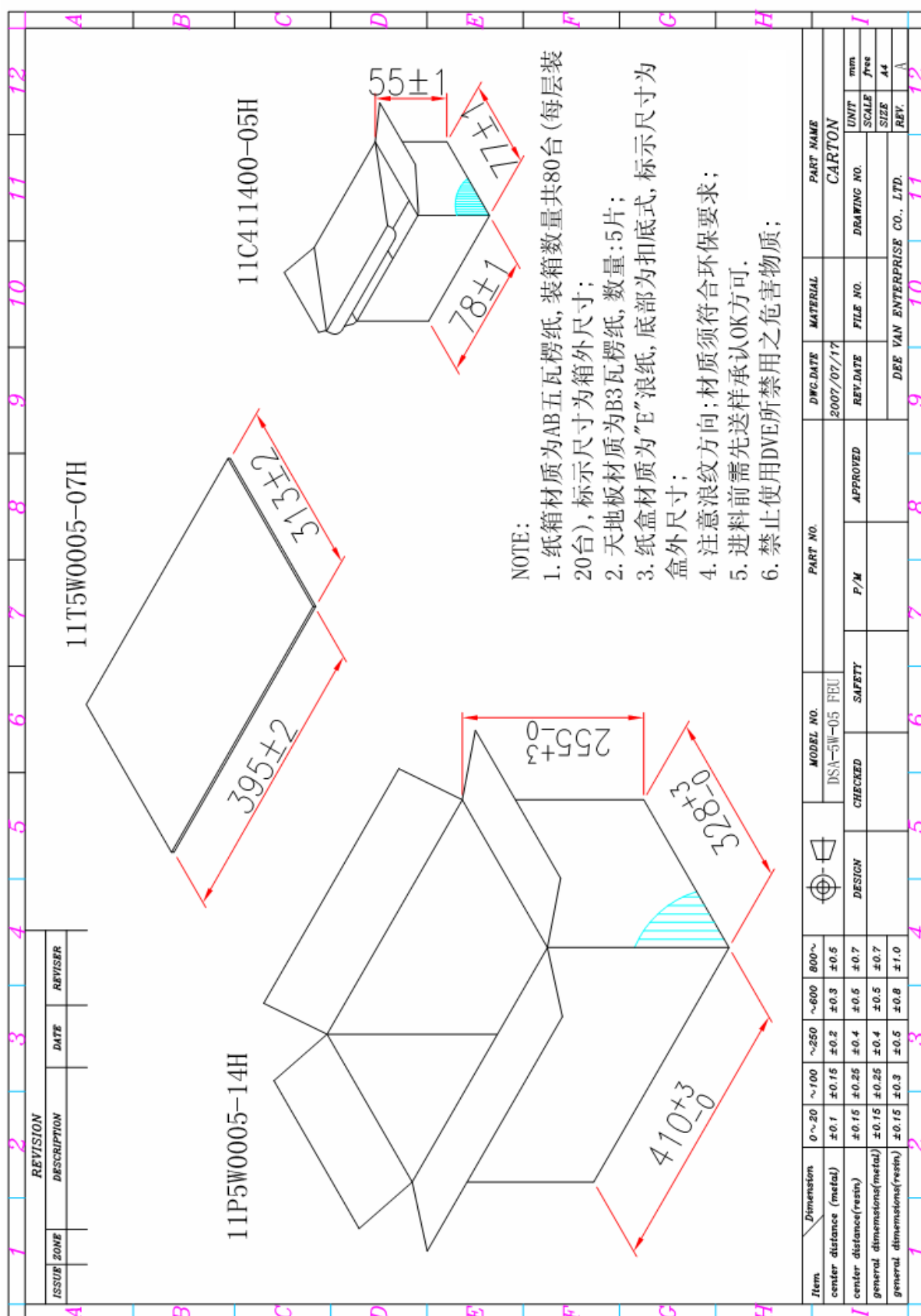
4. PRODUCT OUTLINE DRAWING

-- 1 / 1



5. PACKING DRAWING

-- 1 / 1



6. SAFETY LICENSE(TUV-GS)

-- 1 / 7

Zertifikat

Certificate



Zertifikat Nr. Certificate No.
S1 50246856

Blatt Page
0001

Ihr Zeichen Client Reference
174007459

Unser Zeichen Our Reference
05-BEZ- 16049445 001

Längstens gültig bis Latest expiration date
24.01.2018 (day/mo/yr)

Genehmigungsinhaber License Holder
Dee Van Enterprise Co., Ltd.
No. 5, Pao-Kao Road
Hsin Tien, Taipei 231
Taiwan

Fertigungsstätte Manufacturing Plant
Dee Van Electronics (Longchuan)
Co., Ltd.
Meichun Industrial District
Longchuan Country
Heyuan, Guangdong 517300
P.R. China

Prüfzeichen Test Mark



Geprüft nach Tested acc. to
EN 60950-1:2006+A11+A1+A12
ZEK 01.4-08/11.11

Der Anhang I der Richtlinie 2006/95/EG ist eingehalten. Das Zertifikat kann im Rahmen der Konformitätserklärung nach Anhang III verwendet werden.
 Annex I of the directive 2006/95/EC is complied with. The certificate can be used in connection with the EC declaration of conformity acc. to Annex III.

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Netzgerät (Switching Adapter)

Serienbezeichnung (Series Type Designation) :

15

1) DSA-6PFE-05 Fc de, DSA-6PFE-12 Fc de

2) DSA-6PFE-05 Ac de, DSA-6PFE-12 Ac de

c = EU or UP

d = Eine Dreistellige Zahl, welche die Ausgangsspannung in Volt angibt, nach Teilung der Zahl durch 10.

(Is a 3 digit numerical code, which represents the output voltage in Volt after dividing the number by 10.)

e = Eine Dreistellige Zahl, welche den Ausgangsstrom in A angibt, nach Teilung der Zahl durch 100.

(Is a 3 digit numerical code, which represents the output current in A after dividing the number by 100.)

Schutzklasse (Protection Class) : II

Umgebungstemperatur (Ambient Temperature) : 50°C

Fortsetzung auf Blätter (Continuation on pages) 0002

15

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
 Produkt und Fertigungsstätte erfüllen § 20 und § 21 des Produktsicherheitsgesetzes.
 This certificate is based on our Testing and Certification Regulation.
 Product and production fulfill par § 20 and § 21 of the Product Safety Law.

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg
 Tel.: (+49/221)8 06 - 13 71 e-mail: cert-validity@de.tuv.com
 Fax: (+49/221)8 06 - 39 35 http://www.tuv.com/safety

Ausstellungsdatum Date of Issue : 25.01.2013 (day/mo/yr)

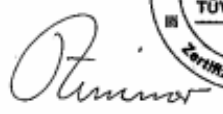
Zertifizierungsstelle



Dipl.-Ing. (FH) T. Zimmer

6. SAFETY LICENSE(TUV-GS)

-- 2 / 7

Zertifikat		Certificate		 TÜVRheinland®	
Zertifikat Nr. Certificate No. S1 50246856		Blatt Page 0002			
Ihr Zeichen Client Reference 174007459	Unser Zeichen Our Reference 05-BEZ- 16049445 001	Längstens gültig bis 24.01.2018	Latest expiration date (day/mo/yr)		
Genehmigungsinhaber License Holder Dee Van Enterprise Co., Ltd. No. 5, Pao-Kao Road Hsin Tien, Taipei 231 Taiwan		Fertigungsstätte Manufacturing Plant Dee Van Electronics (Longchuan) Co., Ltd. Meichun Industrial District Longchuan Country Heyuan, Guangdong 517300 P.R. China			
Prüfzeichen Test Mark  		Geprüft nach Tested acc. to EN 60950-1:2006+A11+A1+A12 ZEK 01.4-08/11.11			
Der Anhang I der Richtlinie 2006/95/EG ist eingehalten. Das Zertifikat kann im Rahmen der Konformitätserklärung nach Anhang III verwendet werden. Annex I of the directive 2006/95/EC is complied with. The certificate can be used in connection with the EC declaration of conformity acc. to Annex III.					
Zertifiziertes Produkt (Geräteidentifikation) Certified Product (Product Identification)		Lizenzentgelte - Einheit License Fee - Unit			
Netzgerät (Switching Adapter)					
wie Blatt (as page) 0001 Fortsetzung (Continuation)					
Nenneingangswerte : 1) AC 100-240V; 50/60Hz; 0,2A (Rated Input) 2) AC 200-240V; 50/60Hz; 0,2A					
Ausgangsleistung (Output Power)		Ausgangsstrom (Output Current)		Ausgangsspannung (Output Voltage)	
Max. (W)		Max. A		DC (V)	
DSA-6PFE-05 Fc de 6,0		1,20		5,0-7,5	
DSA-6PFE-12 Fc de 6,0		0,75		8,0-12,0	
DSA-6PFE-05 Ac de 6,0		1,20		5,0-7,5	
DSA-6PFE-12 Ac de 6,0		0,75		8,0-12,0	
Fortsetzung auf Blatt (Continuation on page) 0003					
Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde. Produkt und Fertigungsstätte erfüllen § 20 und § 21 des Produktsicherheitsgesetzes. This certificate is based on our Testing and Certification Regulation. Product and production fulfill par § 20 and § 21 of the Product Safety Law.					
TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg Tel.: (+49/221)8 06 - 13 71 e-mail: cert-validity@de.tuv.com Fax: (+49/221)8 06 - 39 35 http://www.tuv.com/safety					
Ausstellungsdatum Date of Issue : 25.01.2013 (day/mo/yr)		Zertifizierungsstelle  Dipl.-Ing. (FH) T. Zimmer			

6. SAFETY LICENSE(TUV-GS)

-- 3 / 7

Zertifikat		Certificate		 TÜVRheinland	
Zertifikat Nr. <i>Certificate No.</i> S1 50246856		Blatt <i>Page</i> 0003			
Ihr Zeichen <i>Client Reference</i> 174007459	Unser Zeichen <i>Our Reference</i> 05-BEZ- 16049445 001	Längstens gültig bis 24.01.2018	Latest expiration date (day/mo/yr)		
Genehmigungsinhaber <i>License Holder</i> Dee Van Enterprise Co., Ltd. No. 5, Pao-Kao Road Hsin Tien, Taipei 231 Taiwan		Fertigungsstätte <i>Manufacturing Plant</i> Dee Van Electronics (Longchuan) Co., Ltd. Meichun Industrial District Longchuan Country Heyuan, Guangdong 517300 P.R. China			
Prüfzeichen <i>Test Mark</i>  		Geprüft nach <i>Tested acc. to</i> EN 60950-1:2006+A11+A1+A12 ZEK 01.4-08/11.11			
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Zertifiziertes Produkt <i>(Geräteidentifikation)</i> <i>Certified Product (Product Identification)</i>		Lizenzentgelte - Einheit <i>License Fee - Unit</i>			
Netzgerät (Switching Adapter)					
wie Blatt (as page) 0002 Fortsetzung (Continuation)					
Vermerk: Ausgangsspannung und -strom haben Werte mit der Schrittweite 0,1V bzw. 0,01A. Nach Multiplikation beider Werte sind Modellbezeichnungen limitiert durch die max. Ausgangsleistung. Dieses Netzgerät erfüllt die Anforderung nach Abschnitt 2.5 als Stromquelle mit begrenzter Leistung. (Remark: Output voltage and -current have values in steps of 0,1V resp. 0,01A. By multiplication of both values the type designations are limited through the max.output power. The equipment complies with clause 2.5 as a limited power source.)					
Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde. Produkt und Fertigungsstätte erfüllen § 20 und § 21 des Produktsicherheitsgesetzes. <i>This certificate is based on our Testing and Certification Regulation. Product and production fulfill par § 20 and § 21 of the Product Safety Law.</i>					
TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg Tel.: (+49/221)8 06 - 13 71 e-mail: cert-validity@de.tuv.com Fax: (+49/221)8 06 - 39 35 http://www.tuv.com/safety					
Ausstellungsdatum <i>Date of Issue</i> : 25.01.2013 (day/mo/yr)					
		Zertifizierungsstelle  Dipl.-Ing. (FH) T. Zimmer			

6. SAFETY LICENSE(TUV-GS)

-- 4 / 7

Zertifikat		Certificate		 TÜVRheinland®	
Zertifikat Nr. <i>Certificate No.</i> S1 50246856		Blatt <i>Page</i> 0004			
Ihr Zeichen <i>Client Reference</i> 174007459	Unser Zeichen <i>Our Reference</i> 05-BEZ- 16049445 001	Längstens gültig bis 24.01.2018	Latest expiration date (day/mo/yr)		
Genehmigungsinhaber <i>License Holder</i> Dee Van Enterprise Co., Ltd. No. 5, Pao-Kao Road Hsin Tien, Taipei 231 Taiwan		Fertigungsstätte <i>Manufacturing Plant</i> Dee Van Technology (Longchuan) Co., Ltd. Meichun Industrial District Longchuan Country Heyuan, Guangdong 517300 P.R. China			
Prüfzeichen <i>Test Mark</i>  		Geprüft nach <i>Tested acc. to</i> EN 60950-1:2006+A11+A1+A12 ZEK 01.4-08/11.11			
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Zertifiziertes Produkt (Geräteidentifikation) <i>Certified Product (Product Identification)</i>		Lizenzentgelte - Einheit <i>License Fee - Unit</i>			
Netzgerät (Switching Adapter)					
wie Blatt (as page) 0001					
Ergänzung <i>(Addition)</i>					
Fertigungsstätte <i>(Factory)</i>		: siehe oben <i>(see above)</i>			
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Ausstellungsdatum <i>Date of Issue</i> : 25.01.2013 (day/mo/yr)		Zertifizierungsstelle  Dipl.-Ing. (FH) T. Zimmer			

6. SAFETY LICENSE(TUV-GS)

-- 5 / 7

Zertifikat		Certificate		 TÜVRheinland	
Zertifikat Nr. <i>Certificate No.</i> S1 50246856		Blatt <i>Page</i> 0005			
Ihr Zeichen <i>Client Reference</i> 174007459	Unser Zeichen <i>Our Reference</i> 05-BEZ- 16049445 001	Längstens gültig bis <i>Latest expiration date</i> 24.01.2018			
Genehmigungsinhaber <i>License Holder</i> Dee Van Enterprise Co., Ltd. No. 5, Pao-Kao Road Hsin Tien, Taipei 231 Taiwan		Fertigungsstätte <i>Manufacturing Plant</i> Dee Van Electronics (Jiashan) Co., Ltd. Sanqi Electronics Information Industry District Jiashan Economy Development Zone, Jiashan Town Jiaxing, Zhejiang 314100 P.R. China			
Prüfzeichen <i>Test Mark</i>  		Geprüft nach <i>Tested acc. to</i> EN 60950-1:2006+A11+A1+A12 ZEK 01.4-08/11.11			
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Zertifiziertes Produkt <i>(Geräteidentifikation)</i> <i>Certified Product (Product Identification)</i>		Lizenzentgelte - Einheit <i>License Fee - Unit</i>			
Netzgerät <i>(Switching Adapter)</i>					
wie Blatt (as page) 0001					
Ergänzung <i>(Addition)</i>					
Fertigungsstätte <i>(Factory)</i>		: siehe oben (see above)			
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TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg Tel.: (+49/221)8 06 - 13 71 e-mail: cert-validity@de.tuv.com Fax: (+49/221)8 06 - 39 35 http://www.tuv.com/safety					
Ausstellungsdatum <i>Date of Issue</i> : 25.01.2013 (day/mo/yr)		Zertifizierungsstelle  Dipl.-Ing. (FH) T. Zimmer			

6. SAFETY LICENSE(TUV-GS)

-- 6 / 7

C E R T I F I C A T E



of Conformity
Low Voltage Directive 2006/95/EC

Registration No.: AN 50246943 0001

Report No.: 16049445 001

Holder: Dee Van Enterprise Co., Ltd.
No. 5, Pao-Kao Road
Hsin Tien, Taipei 231
Taiwan

Product: Power Supply
(Switching Adapter)

Identification: Series Type Designation :
1) DSA-6PFE-05 Fc de, DSA-6PFE-12 Fc de
2) DSA-6PFE-05 Ac de, DSA-6PFE-12 Ac de
For a detailed listing of the variables c, d, e refer to
license S1 50246856 0001-0005.
Serial No.: n.a.
(Issued in conjunction with the above mentioned
TÜV Rheinland license.)

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the Licence Holder's disposal. This is to certify that the tested sample is in conformity with all revision of Annex I of Council Directive 2006/95/EC, in its latest amended version, referred to as the Low Voltage Directive. This certificate does not imply assessment of the series-production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to Annex III of the Directive.

Certification Body



Date 25.01.2013

Dipl.-Ing. (FH) T. Zimmer

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

CE The CE marking may be used if all relevant and effective EC Directives are complied with. **CE**

6. SAFETY LICENSE(CE)

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Certificate of Conformity

No. ESTE-E1212025

The following products have been tested by us with the listed standards and found in compliance with the council EMC directive 2004/108/EC. It is demonstrative for the compliance with this EMC Directive.

Applicant : Dee Van Enterprise Co., Ltd
Address : No.5 Pao-Kao Road, Hish-Tien City, Taipei, Taiwan, China
Trade Name : DVE
Product : Switching Adapter
Model No : DSA-6PFE-a bc de
a:Output voltage range 05; 12.
b:Input voltage range.
F:Full range (100-240VAC) A (200-240VAC) , B (100-120VAC)
c: can be EU, UP, UK, US, UJ, JP, CH, IN, AU, KA, KR, AN, AR, SA or AF;
EU or UP means European plug used, UK means British plug used, US or UJ means American plug used, CH means Chinese plug used, IN means Indian plug used, AU means Australian plug used, KA or KR means Korea plug used, JP or US means Japanese plug used, AN or AR means Argentina plug used, SA or AF means South Africa plug used.
d:Output voltage : 3 digit number.
e:Output current : 3 digit number.

Test Standards :	
EN 55022:2010 CISPR 22:2008	Limits and methods of measurement of radio disturbance characteristics of information technology equipment
EN 61000-3-2; 2006+A2:2009	Electromagnetic compatibility (EMC) -- Part 3-2: Limits - Limits for harmonic current emissions (equipment input current up to and including 16 A per phase)
EN 61000-3-3:2008	Electromagnetic compatibility (EMC) -- Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection
EN 55024:2010 CISPR 24:2010	Information technology equipment-Immunity characteristics limits and methods of measurement



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The statement is based on a single evaluation of one sample of above mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab's logo.