



# TEN PAO INTERNATIONAL LTD.

## SPECIFICATION FOR APPROVAL



CUSTOMER: DIGIMAX SRL TEN PAO MODEL NO.: S006EV0500120

CUSTOMER P/N: \_\_\_\_\_ TEN PAO P/N: R022621V-V

CUSTOMER MAINFRAME MODEL: \_\_\_\_\_ REV. No.: 0

DATE: Dec.09,2014

DESCRIPTION: Input:100-240Vac ;Output: 5.0Vdc 1.2A, SMPS Adaptor

**Dear Customer:**

**Please send one copy of this specification back after you sign and approve for production**

**Approved By:** \_\_\_\_\_

**Date:** \_\_\_\_\_

ISSUED BY		CHECKED BY		APPROVED BY	
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E0-3-011 B/3

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## Design Revision History

Rev.	Mark	Release Date	Description of Change		Revised By	Approved By
			Before	After		
0	/	Dec. 09,2014	Creation		何金沁	白德向

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## Sample Delivery Information

### 1. Sample Background

Circuit Diagram Revision No: 0    PCB Layout Revision No: 0.1    BOM Revision No: 0    Transformer Revision No.: 0

### 2. Sample Purpose:

A. Function Sample                       B. Final sample                       C. Other Sample

### 3. Samples material instead of information

No.	Position No	Original design materials	The sample use material	Change Reason
1	none	none	none	none
2				
3				
4				
5				

### 4. The Change List Compare To Last Time Samples was:

The( )Samples,This Time Samples' Tracking Number was:( ), Delivery Date:( ).

No.	What is At Last Time Samples	What Is At This Time Samples	Change Reason
1	none	none	none
2			
3			
4			
5			

**Remark: Final sample can be used to approve**

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## 1. SCOPE

This document details the electrical, mechanical and environmental specifications of a switching power supply.

### 1.1 Description

Wall Mount

Desk-Top

Open Frame

Others

## 2. INPUT REQUIREMENTS

### 2.1 Input Voltage & Frequency

The range of input voltage is from 90Vac to 264Vac

	Min.	Normal	Max.
Input Voltage	90Vac	100-240Vac	264Vac
Input Frequency	47Hz	50/60Hz	63Hz

### 2.2 Input Current

The maximum input current is 200mA max. at 100-240Vac .

### 2.3 Inrush Current

The inrush current will not exceed 27A at 100-240Vac input and Max load for a cold start at 25°C.

### 2.4 Stand-By Power

The input power should be less than      with No-Load.

## 3. OUTPUT FEATURES

### 3.1 Output Parameters

	Output Data	Spec. Limit			Test Condition
		Min. Value	Typical	Max. Value	
3.1.1	5.0Vdc				
3.1.2	Output Voltage	4.75Vdc	5.0Vdc	5.25Vdc	0 ~ 1.2A Loading
3.1.3	Output Load	0A	—	1.2A	
3.1.4	Output Current	1.2A	—	1.45A	CV:2.5V-4.75V
3.1.5	Ripple and Noise	—	—	150mVp-p	20MHz Bandwidth 1uF Ele.Cap.

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3.2 Turn On Delay

During turn on and turn off, no output voltage shall exceed its nominal voltage by more than **10%** and no output shall change its polarity with respect to its return line. All outputs shall reach their steady state values within **3** seconds of turn on.

3.3 Hold Up Time

**10** ms minimum at **115Vac/60Hz** input at maximum load, and **20** ms minimum at **230Vac/50Hz** input at maximum load.

3.4 Typical Efficiency

The efficiency (watts out / watts in) shall be higher than          typical while measuring at nominal line and maximum load condition, test in 1 minute after power on.

3.5 Output Transient Response

The power supply shall maintain output transient response time within          with a loading current change from 20% to 80% of maximum current and 0.5A/μs rise up /drop down test at end of output terminal.

**4. PROTECTION REQUIREMENT**

4.1 Over-Voltage Protection

Over-voltage protection shall be included in the adaptor circuit. A single component failure must not cause an over voltage.

4.2 Over-Current Protection

The adaptor must have a current limiting function on the output voltage. in overload mode, the output must drop to a low voltage.

4.3 Short-Circuit Protection

The adaptor must withstand a continuous short circuit on the output without damage.

**5. ENVIRONMENTAL CONDITIONS**

5.1 Operating

The power supply shall be capable of operating normally in any mode without malfunction happens in the following environmental conditions.

5.1.1 Operating Temperature: 0°C ~40°C (Can operate normally)

Relative Humidity: 10% ~ 90%

Altitude: Sea level to 2,000 m.

5.1.2 Vibration: 1.0mm, 10 –55Hz, 15 minutes per cycle for each axis (X, Y, Z).

5.1.3 Cooling: Natural convection cooling

5.2 Non - Operating

The power supply shall be capable of withstanding the following environmental conditions extended periods of time, without sustaining electrical or mechanical damage and subsequent operational deficiencies.

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5.2.1 Storage Temperature: -30°C ~ 70°C

5.2.2 Relative Humidity: 10% ~ 90%

5.2.3 Altitude: Sea level to 2,000 m.

5.2.4 Vibration and Shock:

The power supply shall be designed to withstand normal transportation vibration per MIL-STD-810D, method 514 and procedures X, as it is mounted in the chassis assembly and packed for shipping.

## 6. RELIABILITY AND QUALITY CONTROL

6.1 MTBF

When the power supply is operating within the limits of this specification the MTBF shall be at least 50,000 hours at 25°C (MIL-HDBK-217F).

6.2 Burn-In

The power supply shall withstand a minimum of 2 hours Burn-In test under full load at 35°C ~40°C room temperatures, after test, product shall operate normally.

6.3 Component Derating

Semiconductor junction temperatures shall not exceed the manufacturer's maximum thermal rating.

## 7. MECHANICAL CHARACTERISTICS

7.1 Physical Dimensions

The detail dimension of the power supply is drawn on APPENDIX A.

7.2 Nameplate

The label of the power supply, please see APPENDIX C.

7.3 Drop test

Dropped freely from 1 m (for wall mount product) height onto the surface is consisted of hardwood 13 mm thick, mounted on two layers of plywood each 19-20 mm thick, all supported on concrete floor 1 time from 3 different surface, after test, it's no safety damage for product.

## 8. SAFETY

8.1 Safety Standard

The power supply shall be certified under the following international regulatory standards

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Item	Country	Certified	Standard
CE	Europe	Approved	EN60950-1

8.2 Insulation Resistance

Input to output: 10 MΩ min. at 500 VDC.

8.3 Dielectric Strength (Hi-Pot)

Primary to Secondary **DC4242V,3.5mA** 1 minute for type test,  
**DC4500V,3.5mA** 2 seconds for product.

8.4 Leakage Current

The leakage current shall be less than **0.25mA** for **Class II** when the power supply is operated maximum input voltage and maximum frequency.

**9. EMC STANDARDS**

9.1 EMI Standards

The power supply shall meet the radiated and conducted emission requirements for **EN55022.**

9.2 EMS Standards(**EN55024**)

The power supply shall meet the following EMS standards

9.2.1 IEC61000-4-2 Electrostatic Discharge (ESD)

Static – discharge test by contact or air should be conducted with Static – discharge tester, energy storage capacitance of 150pF, and discharge resistance of 330Ω.

**8KV** air discharge, **4KV** contact discharge, Performance Criterion B.

9.2.2 IEC61000-4-3 Radiated Electromagnetic Fields(RS)

Radio- frequency Electromagnetic Field Susceptibility Test, RS, 80-1000MHz,3V/m, 80%AM(1KHz), Performance Criterion A.

9.2.3 IEC61000-4-4 Electrical Fast Transient / Burst (EFT)

Power Line to Line: **1KV**

Performance Criterion B.

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- 9.2.4 IEC61000-4-5 Lightning Surge Attachment  
Lightning Surge voltage of differential and common modes shall be applied across AC input lines and across input and frame ground.  
Power Line to Line: **1KV**  
Performance Criterion B.
- 9.2.5 IEC61000-4-6 Conducted Radio Frequency Disturbances (CS)  
Conducted Radio Frequency Disturbances Test, CS, 0.15-80 MHz, 3V/m, 80%AM, 1KHz, Performance Criterion A.
- 9.2.6 IEC61000-4-11 Voltage Dips/Short Interruption/Variations  
Voltage Dips, 30% reduction- 10ms, Performance Criterion B, 60% Reduction – 100ms, Performance Criterion C, Voltage Interruptions>95% Reduction- 5000ms, Performance Criterion C.

## 10. OTHER REQUIREMENTS

### 10.1 Hazardous Substances

The components and used materials shall be in compliance with

- EU Directive 2002/95/EC "RoHS"  
 EU Directive 2002/96/EC "WEEE"  
 Halogen Free  
 REACH

### 10.2 Energy Efficiency

10.2.1 The No-Load power consumption shall be less than **0.1W** at input **115/230Vac,60/50Hz.**

10.2.2 The average active mode efficiency shall be higher than **69.54%** at input **115/230Vac,60/50Hz.**

10.2.3  International Efficiency Level     V     .

Korea Energy Efficiency Label

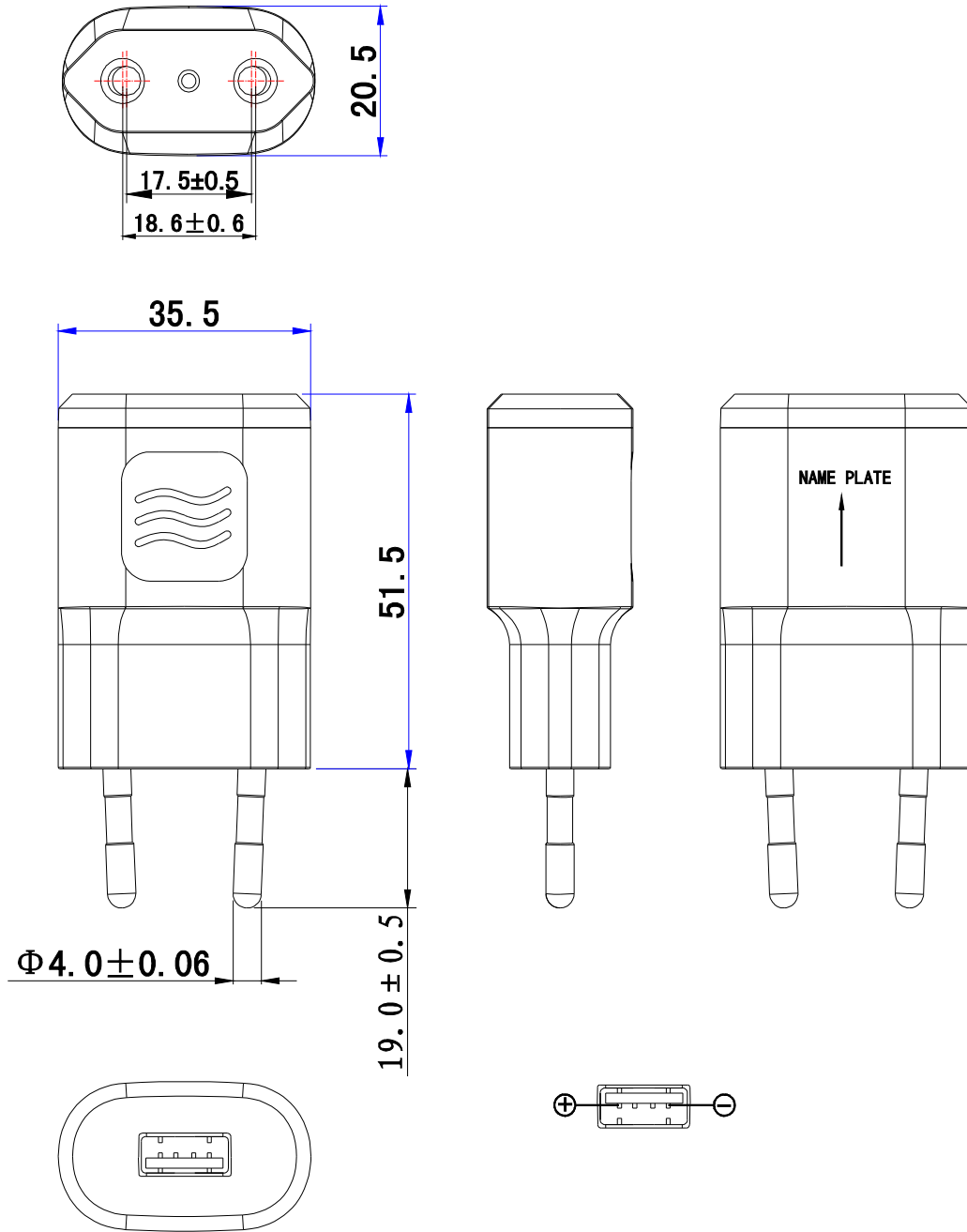
10.2.4 This power supply is therefore in compliance with the requirements of

- California Energy Commission Energy Efficiency requirements for external power supplies (CEC)  
 Energy Star Energy Efficiency requirements for external power supplies (EPS Version 2.0)  
 Canada's Energy Efficiency Regulations for External Power Supplies  
 Australian and New Zealand Energy Performance Requirements for external power supplies (MEPS,AS/NZS 4665.1,AS/NZS 4665.2)  
 China Energy Efficiency requirements for external power supplies (GB20943)  
 Korea regulation on Energy Efficiency Labeling and Standards for external power supplies (MKE's Notification 2008-99)  
 Implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for no-load condition electric power consumption and average active efficiency of external power supplies (**No 278/2009 ,Stage 2**)

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# APPENDIX A

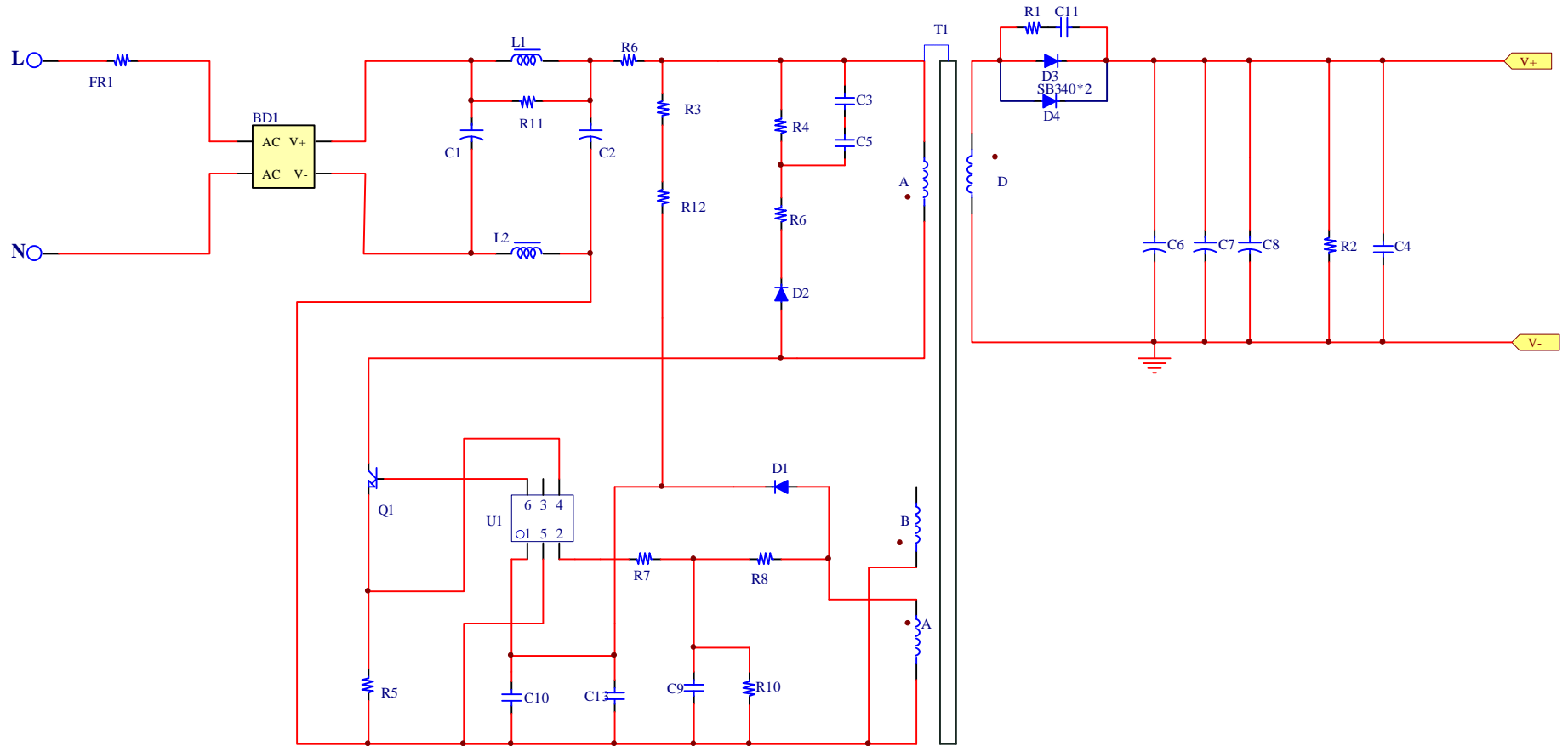
Mechanical Dimensions(Unit: mm) Tolerance Of Unspecified Parts:±1.5mm



REMARK	BLACK
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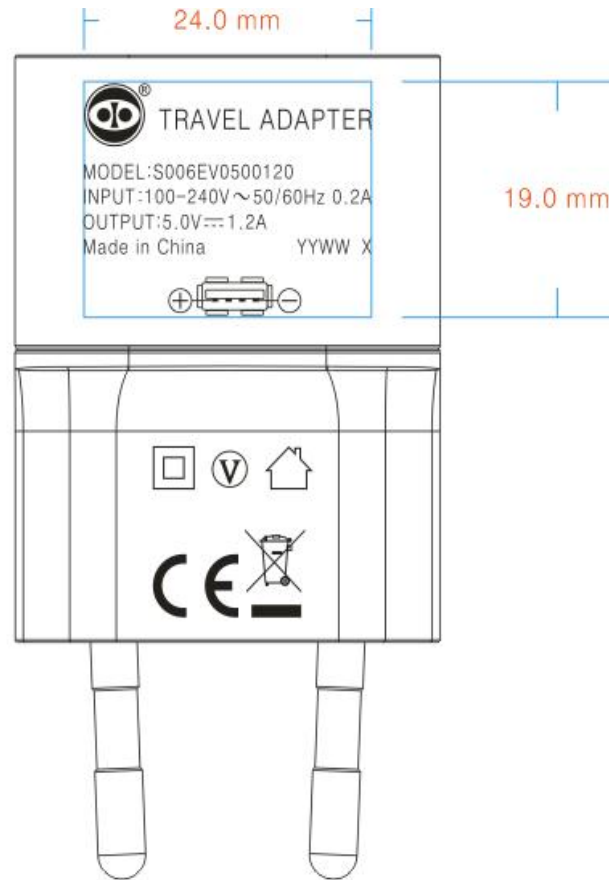
# APPENDIX B



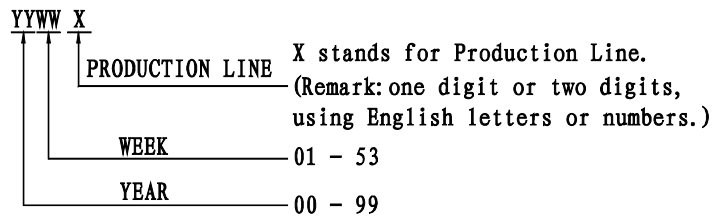
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# APPENDIX C

Name Plate:



DATE CODE:



Unit: mm

Word Color: **Grey (Laser Print)**

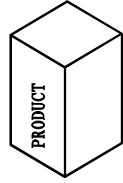
\* Please Advise If Any Comments About The Name Plate Information.

Otherwise, This Information Is Defaulted As Customer Approval,  
And Will Be Applied To Production .

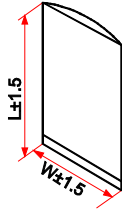
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# APPENDIX E

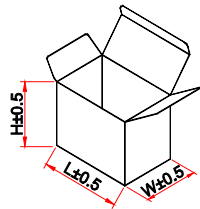
PRODUCT:



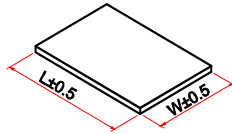
PLASTIC BAG:



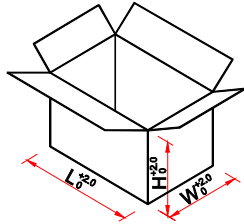
WHITE BOX



CARDBOARD:



CARTON:



DIMENSION(UNIT IN cm):

	L	W	H
PLASTIC BAG	10.0	8.0	
WHITE BOX	7.5	2.6	4.1
PAPERBOARD	38.0	22.0	
CARTON	39.5	23.0	23.5

PACKING METHOD:

PAPERBOARD PLACEMENT METHOD	PUT A PAPERBOARD OVER AND UNDER THE PRODUCTS OF EACH LAYER, TOTAL 2PCS.
PACKING METHOD	40PCS/LAYER X 5 LAYERS
QTY	200PCS
N.W./PC	
G.W./CARTON	

REMARK:

1. STORAGE CONDITION

TEMPERATURE: -10°C ~ +60°C  
 RELATIVE HUMIDITY: 30% ~ 80%

2. STORAGE PERIOD: 6 MONTHES

3. ANLISTATIG: NO REQUIREMENT

4. PLEASE ADVISE IF ANY COMMENTS ABOUT THE PACKING INFORMATION.  
 OTHERWISE, THIS INFORMATION IS DEFAULTED AS CUSTOMER APPROVAL,  
 AND WILL BE APPLIED TO PRODUCTION.

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# APPENDIX E

## SAMPLE PRIMARY TEST REPORT

<b>CUSTOMER</b>		<b>DIGIMAX SRL</b>												
<b>MODEL NO.</b>		<b>S006EV0500120</b>				<b>TEN PAO P/N</b>				<b>R022621V-V</b>				
Test Items.	Test Condition	Unit	Sample Number and Test Result										Pass/Fail	
			1#	2#	3#	4#	5#	6#	7#	8#	9#	10#		
Unload output voltage/ (0.0A) 4.75Vdc - 5.25Vdc	90Vac	V												Pass
	132Vac	V												Pass
	180Vac	V												Pass
	264Vac	V												Pass
Rated load output voltage/ (1.2A) 4.75Vdc - 5.25Vdc	90Vac	V												Pass
	132Vac	V												Pass
	180Vac	V												Pass
	264Vac	V												Pass
Rated output current/ (CV:1.2-1.45A) Input:90Vac	4.75V	A												Pass
	2.5V	A												Pass
Rated output current/ (CV:1.2-1.45A) Input:264Vac	4.75V	A												Pass
	2.5V	A												Pass
Output ripple & noise voltage ≤ 150mV (test at full loading)	90Vac	mV												Pass
	132Vac	mV												Pass
	180Vac	mV												Pass
	264Vac	mV												Pass
Short-circuit protection test (Short at end of DC plug)	90Vac	W												-
	264Vac	W												-
Over current protection (Ocp ≤ -A)	90Vac	A												-
	264Vac	A												-
Hi-pot test	4242Vdc/3.5mA/ 1Minute		OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	Pass
<b>TEST BY</b>	<b>CHECKED BY</b>	<b>APPROVED BY</b>	<b>DATE</b>			<b>REV.</b>			<b>SHEET</b>					
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# APPENDIX F

## SAMPLE TEST REPORT

<b>CUSTOMER:</b>		DIGIMAX SRL									
<b>TEN PAO MODEL NO.:</b>		S006EV0500120			<b>TEN PAO P/N:</b>			R022621V-V			
Items No.	Test Items	Unit	Test condition & result					Spec. Limit	Pass/ Fail		
			90Vac	115Vac	132Vac	180Vac	230Vac			264Vac	
1	Unload input current	mA							-	-	
2	Unload input power	W							≤0.1W (115/230Vac)	Pass	
3	Rated load input current	mA							≤200mA (100 - 240Vac)	Pass	
4	Rated load input power	W							-	-	
5	Unload output voltage(0.0A)	V							4.75V-5.25V	Pass	
6	Rated load output voltage(1.2A)	V							4.75V-5.25V	Pass	
7	Rated voltage output current(CV=4.75V)	A							1.2A-1.45A	Pass	
8	Rated voltage output current(CV=2.5V)	A							1.2A-1.45A	Pass	
9	Output ripple&noise voltage(1.2-0A)	mV							≤150.0mVp-p	Pass	
10	Short-circuit test (Pin&lout)	W							-	-	
		A	hiccup	hiccup	hiccup	hiccup	hiccup	hiccup	-	-	
11	Over current protection	A							-	-	
12	Over voltage protection	V							-	-	
13	Turn on delay time	mS							≤3000.0mS	Pass	
14	Hold up time	mS							≥10mS/(115Vac) ≥20mS/(230Vac)	Pass	
15	Efficiency(Full load)	%	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	-	-	
16	Mech. Dimension	mm					35.5		L:51.5±1.5; W:35.5±1.5		Pass
							-		H:20.5±1.5		Pass
							-		AC PIN:19.0±0.5		Pass
17	DC cord and DC connector	mm	DC conn.:Polarity and Dimension conform with spec. limit.							Pass	
18	Hi-pot test	Pri. to Sec:4242Vdc,1Minute, Cut off current≤3.5mA(Test result: 0.03mA)								Pass	
19	Drop test	Drop test 3 Times (High: 1000mm), The sample OK									
20	Max. and Light load change test	Max. load to Light load: OK    Light load to max. load: OK    (90-264Vac)									
21	Appe. label and fusion	Appearance: OK, Label: OK, Fusion: OK									
22	Mosfet(IC)/Vcb(normal:95% ,other:100%)	V						Mosfet spec. 800V	Derating≤95% &100% Max. Volt.	Pass	
			normal	start up	short	ocp	max/min				
23	Diode /Vrr(normal:90% ,other:100%)	V						Diode spec. 40V	Derating≤90% &100% Max. Volt.	Pass	
			normal	start up	short	ocp	max/min				
<b>TEST BY</b>		<b>CHECKED BY</b>		<b>APPROVED BY</b>		<b>DATE</b>		<b>REV</b>		<b>SHEET</b>	
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# APPENDIX F

## SAMPLE TEST REPORT

**CUSTOMER:** DIGIMAX SRL

**TEN PAO MODEL NO.:** S006EV0500120      **TEN PAO P/N:** R022621V-V

**1. TEST STANDARD:** Implementing Directive 2009/125/EC of the European Parliament and of the Council

**2. Product Specification:**  
 Input voltage, frequency, current: 100-240VAC 50/60HZ 200mA      Output voltage, current: 5VDC/1.2A

**3. TEST METHOD:**  
 3.1. Under input 230VAC / 50Hz, output normal load, the EUT continuous operating for 30 minutes.  
 3.2. Under input 115VAC / 60Hz and 230VAC / 50Hz, the EUT is measured at 100%, 75%, 50% and 25% of rated output current. Record values are output voltage, output current, input power, input current. Then calculating average efficiency at four active mode load conditions.  
 3.3. Input 115VAC / 60Hz and 230VAC / 50Hz, test the input power, input current, output voltage in the no-load condition.

**4. TEST DATA:** (Room temperature: 25-30°C, relative humidity : 10-90%).

4.1 Input voltage, frequency 115V,60Hz:

Sample No.	Item	Unload	25%*I <sub>L</sub>	50%*I <sub>L</sub>	75%*I <sub>L</sub>	100%*I <sub>L</sub>	Average	
1#	Output	Current(mA)					/	
		Voltage(V)					/	
		Power(W)	/	/	/	/	/	
	Input	Power(W)						/
		THD <sub>V</sub> (%)	/	/	/	/	/	/
		True PF						/
		Current(mA)						/
	Efficiency(%)		/	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
2#	Output	Current(mA)					/	
		Voltage(V)					/	
		Power(W)	/	/	/	/	/	
	Input	Power(W)						/
		THD <sub>V</sub> (%)	/	/	/	/	/	/
		True PF						/
		Current(mA)						/
	Efficiency(%)		/	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
3#	Output	Current(mA)					/	
		Voltage(V)					/	
		Power(W)	/	/	/	/	/	
	Input	Power(W)						/
		THD <sub>V</sub> (%)	/	/	/	/	/	/
		True PF						/
		Current(mA)						/
	Efficiency(%)		/	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Energy Efficiency (Min.) : 78.1%      Efficient Level V: 69.54%      JUDGEMENT      Pass/Fail      Pass

TEST BY	CHECKED BY	APPROVED BY	DATE	REV.	0
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## SAMPLE TEST REPORT

<b>CUSTOMER:</b>	DIGIMAX SRL		
<b>TEN PAO MODEL NO.:</b>	S006EV0500120	<b>TEN PAO P/N:</b>	R022621V-V

4.2 Input voltage, frequency 230V,50Hz:

Sample No.	Item	Unload	25%*I <sub>L</sub>	50%*I <sub>L</sub>	75%*I <sub>L</sub>	100%*I <sub>L</sub>	Average	
1#	Output	Current(mA)					/	
		Voltage(V)					/	
		Power(W)	/	/	/	/	/	
	Input	Power(W)						/
		THD <sub>V</sub> (%)	/	/	/	/	/	/
		True PF						/
		Current(mA)						/
Efficiency(%)		/	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
2#	Output	Current(mA)					/	
		Voltage(V)					/	
		Power(W)	/	/	/	/	/	
	Input	Power(W)						/
		THD <sub>V</sub> (%)	/	/	/	/	/	/
		True PF						/
		Current(mA)						/
Efficiency(%)		/	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
3#	Output	Current(mA)					/	
		Voltage(V)					/	
		Power(W)	/	/	/	/	/	
	Input	Power(W)						/
		THD <sub>V</sub> (%)	/	/	/	/	/	/
		True PF						/
		Current(mA)						/
Efficiency(%)		/	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Energy Efficiency (Min.) : 74.61%		Efficient Level V: 69.54%			JUDGEMENT	Pass/Fail	Pass	

**5.EQUIPMENTS LIST:**

**Power meter: WT210      AC source: AFC-500W      Electronic load: Prodigit 3311F**

**6.REMARK:**

**First Function Sample**

TEST BY	CHECKED BY	APPROVED BY	DATE	REV.	SHEET
朱驰			Dec.09,2014	0	Page 16 of 16

**IEC****IECEE**  
CB  
SCHEME

Ref. Certif. No.

JPTUV-044150

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST  
CERTIFICATES FOR ELECTRICAL EQUIPMENT  
(IECEE) CB SCHEMESYSTEME CEI D'ACCEPTATION MUTUELLE DE  
CERTIFICATS D'ESSAIS DES EQUIPEMENTS  
ELECTRIQUES (IECEE) METHODE OC**CB TEST CERTIFICATE**  
**CERTIFICAT D'ESSAI OC**Product  
Produit

Travel Adapter

Name and address of the applicant  
Nom et adresse du demandeurTen Pao Industrial Co., Ltd.  
Rm. 10-11, 6/F.  
Kwong Sang Hong Centre, 151-153 Hoi Bun Road, Kwun Tong,  
Kowloon, Hong KongName and address of the manufacturer  
Nom et adresse du fabricantTen Pao Industrial Co., Ltd.  
Rm. 10-11, 6/F.  
Kwong Sang Hong Centre, 151-153 Hoi Bun Road, Kwun Tong,  
Kowloon, Hong KongName and address of the factory  
Nom et adresse de l'usineTen Pao Electronics (Huizhou) Co., Ltd.  
Dongjiang Industrial Area  
Shuikou Town, Huizhou City, Guangdong Province, P.R. ChinaRating and principal characteristics  
Valeurs nominales et caractéristiques principalesInput : AC 100V-240V; 50/60Hz; 0.2A; Class II  
Output: DC 5.0V, 1200mATrade mark (if any)  
Marque de fabrique (si elle existe)

Trademark of Ten Pao Industrial Co., Ltd.

Model/type Ref.  
Ref. de typeS008Ez0500120  
(z = V, K, U, T, B, S, A)Additional information (if necessary)  
Information complémentaire (si nécessaire)

For model differences, refer to the test report

A sample of the product was tested and found  
to be in conformity with  
Un échantillon de ce produit a été essayé et a été  
considéré conforme à laIEC 60950-1:2005+A1  
National differences see test reportAs shown in the Test Report Ref. No. which forms part  
of this Certificate  
Comme indiqué dans le Rapport d'essais numéro de  
référence qui constitue une partie de ce Certificat

17025961 001

This CB Test Certificate is issued by the National Certification Body  
Ce Certificat d'essai OC est établi par l'Organisme National de CertificationTÜV Rheinland Japan Ltd.  
Global Technology Assessment Center  
4-25-2 Kita-Yamata, Tsuzuki-ku  
Yokohama 224-002, Japan  
Phone + 81 45 914-3888  
Fax + 81 45 914-3354  
Mail: info@jpn.tuv.com  
Web: www.tuv.com

Date: 14.06.2012

Signature:

Dipl.-Ing. (FH) C. Nasca

R022621V-V M