



MODEL NO : MPS090015-CI 15.0V/6.00A (standard)
ENGINEERING SPECIFICATION SHEET

Purpose: This specification document represents the design criteria of the product identified herein, for the approval of the designated recipient (customer). Prior to production and delivery of this product by CWT, the customer shall endorse its approval of this specification document, upon review of the detailed information provided herein. The customer's endorsement (approval) verifies that the product description is determined to be fully compliant to the customer's design requirements. If one or more samples are included with this specification, the customer's endorsement (approval) further verifies that the product has been tested by the customer, for which the product satisfactorily meets all aesthetic, mechanical, electrical, and operating requirements for its intended usage with the customer's suitable indoor equipment or applications.

To Approve: An authorized employee or agent of the customer shall endorse approval of this specification. Please sign & date this cover-page, and initial each subsequent page in the lower left corner to signify all sections have been read and found to be acceptable. A completed, original copy (signed, dated, initialed) of this specification must be returned to CWT to record the approved customer design. The customer shall keep one or more copies for its records. Upon receipt, CWT shall manufacture the product to the approved customer design. If design revisions are otherwise required, a revised specification and/or modified samples shall be provided by CWT for the endorsement (approval) by the customer.

CHANNEL WELL TECHNOLOGY (CWT)
CWT KOREA

VERSION: UPDATED	MPS090015 - CI 15V/6A
Specification No.: 20240911	DIN 4PIN(1,3: - ,2,4: +/S.F)*1,200



Table of Contents

1	SCOPE.....	5
2	ELECTRICAL SPECIFICATION.....	5
2.1	INPUT REQUIREMENT.....	5
2.1.1	Input voltage range.....	5
2.1.2	Input frequency range.....	5
2.1.3	AC inrush current.....	5
2.1.4	Input current.....	5
2.1.5	Leakage current.....	5
2.1.6	Power factor.....	6
2.1.7	Insulation resistance.....	6
2.1.8	Low power consumption.....	6
2.2	INPUT PROTECTION.....	6
2.2.1	Input current protection.....	6
2.3	OUTPUT REQUIREMENT.....	6
2.3.1	Output power.....	6
2.3.2	Output voltage and current.....	6
2.3.3	Ripple and noise.....	7
2.3.4	Over voltage protection.....	7
2.3.5	Over current protection.....	7
2.3.6	Overshoot.....	7
2.3.7	Short circuit Protection.....	7
2.3.8	Audible noise.....	7
2.4	PERFORMANCE REQUIREMENT.....	8
2.4.1	Efficiency.....	8
2.4.2	Turn on delay time.....	8
2.4.3	Hold-up time.....	8
2.4.4	Dynamic load.....	8
3	ENVIRONMENTAL SPECIFICATION.....	8
3.1	TEMPERATURE.....	8
3.2	HUMIDITY.....	9
3.3	VIBRATION AND SHOCK.....	9

ISSUE DATE: 2023-09-04	Revision No.: 5.0	
Specification No:	Page: 3 of 11	



**MODEL NO : MPS090015-CI 15.0V/6.00A(standard)
ENGINEERING SPECIFICATION SHEET**

3.4	ALTITUDE.....	9
3.5	CALCULATED MEAN TIME BETWEEN FAILURES (MTBF).....	9
3.6	BURN-IN.....	9
4	RELATED SPECIFICATION.....	10
4.1.1	EMI.....	10
4.1.2	Dielectric strength—(Hi-pot).....	10
4.1.3	Surge.....	10
4.1.4	Electrostatic discharge ESD.....	10
4.1.5	RF Immunity.....	10
4.1.6	Environment standards.....	10
4.1.7	Electrical Fast TRANSIENTS (EFT).....	11
4.1.8	Conducted Immunity.....	11
4.1.9	Power frequency magnetic field.....	11
5	MECHANICAL.....	11
5.1	INPUT CONNECTOR AND OUTPUT CABLE.....	11
5.1.1	Input connector.....	11
5.1.2	Output cable.....	11
5.2	AC ADAPTER EXTERNAL DIMENSION.....	11

ISSUE DATE: 2023-09-04	Revision No.: 5.0	
Specification No:	Page: 4 of 11	



1 SCOPE

This document describes basic electrical characteristics and mechanical characteristic of 90W medical power supply adapters.

2 ELECTRICAL SPECIFICATION

2.1 INPUT REQUIREMENT

2.1.1 INPUT VOLTAGE RANGE

Industrial power supply shall operate within input specification from 90Vac to 264Vac or provide automatic switching between high line and low line input ranges. The table below shows common input voltage range.

Input Range	Minimum	Nominal	Maximum	Unit
	90 V	100V-240V	264V	Vac Rms

Table 1 - Input Voltage Range

2.1.2 INPUT FREQUENCY RANGE

The industrial power supply shall operate within specification from 47 to 63 Hz.

2.1.3 AC INRUSH CURRENT

Peak inrush current should not exceed 140A at 240Vac, 50Hz, 25 degrees C, cold start. It should not interrupt line fuse or cause damage to the industrial power supply either at cold or warm start.

Peak inrush current should not exceed 80A at 100Vac, 60Hz, 25 degrees C, cold start. It should not interrupt line fuse or cause damage to the industrial power supply either at cold or warm start.

The inrush current must be limited to the extent that no damage is done to the supply under any specified line, load, and temperature conditions. The inrush current shall not cause any external protection devices (i.e. fuses) to trip.

2.1.4 INPUT CURRENT

Maximum steady state input current shall not exceed 1.8A for any line voltage specified in 2.1.1.

2.1.5 LEAKAGE CURRENT

0.25mA maximum at 240Vac 50Hz

ISSUE DATE: 2023-09-04	Revision No.: 5.0	
Specification No:	Page: 5 of 11	



**MODEL NO : MPS090015-CI 15.0V/6.00A(standard)
ENGINEERING SPECIFICATION SHEET**

2.1.6 POWER FACTOR

0.90Min at 100Vac/60HZ or 240Vac/50HZ full load

2.1.7 INSULATION RESISTANCE

Insulation resistance shall be more than 50M ohm between primary and secondary.

2.1.8 LOW POWER CONSUMPTION

Vin	Load	Power consumption
240Vac/50Hz 100Vac/60Hz	0A	≤ 0.15 W

2.2 INPUT PROTECTION

2.2.1 INPUT CURRENT PROTECTION

A fuse with rating of **8.0A / 250V** (Time Lag type) shall be installed on the input L line.

A fuse with rating of **3.15A / 250V** (Time Lag type) shall be installed on the input N line.

2.3 OUTPUT REQUIREMENT

2.3.1 OUTPUT POWER

The total output power, under steady state conditions, shall not exceed **90W**.

2.3.2 OUTPUT VOLTAGE AND CURRENT

Under any combination of line and load variation and environmental conditions, all outputs shall remain within tolerance as defined in Table 2. Output voltage(s) shall be measured at the load side of output connector.

Output Voltage	Voltage Range		Current Range		
	Lower Limit	Upper Limit	Minimum Load	Full rated load	PK Load
+15.0V	14.25V	15.75V	0.0A	6.00A	--

Table 2 - Output Voltage and Current

ISSUE DATE: 2023-09-04	Revision No.: 5.0	
Specification No:	Page: 6 of 11	



**MODEL NO : MPS090015-CI 15.0V/6.00A(standard)
ENGINEERING SPECIFICATION SHEET**

2.3.3 RIPPLE AND NOISE

Measurements shall be made with an oscilloscope with minimum of 20MHz bandwidth and 1:1 scope Probe, Output shall be bypassed at the connector with a 0.1µF ceramic disk capacitor and a 47µF electrolytic capacitor for general testing purpose.

Output Voltage	Maximum Ripple & Noise (Vp-p)
+15.0V	240mV

Table 3 – Ripple and Noise

2.3.4 OVER VOLTAGE PROTECTION

The power supply shall provide with over voltage protection such that under any single component failure.

The overvoltage protection test load is 10%~100%, maximum value is 22.50V

2.3.5 OVER CURRENT PROTECTION

The power supply shall be protected when operating any output in overload condition. The power supply shall be shut down and no any damage when the over current condition occurs on the output, bandit will be auto-recovered when the failure is removed.

Output Voltage	Over current protection		Test condition
	Lower Limit	Upper Limit	Input voltage:100Vac 60Hz or 240Vac 50Hz.
+15.0V	7.2A	15.50A	

Table 4 –Over current protection

2.3.6 OVERSHOOT

During turn on or turn off, the output overshoot shall not exceed nominal output voltage by more than 5%, and output shall not change its polarity with respect to its return line.

2.3.7 SHORT CIRCUIT PROTECTION

Power supply shall have self-limiting protection to protect against short circuit or overload conditions. No damage to the power supply shall result from a continuous or intermittent short circuit condition. It will be auto-recovered when the failure is removed.

2.3.8 AUDIBLE NOISE

There is no audible noise canned been heard when it work with rated spec.

ISSUE DATE: 2023-09-04	Revision No.: 5.0	
Specification No:	Page: 7 of 11	



2.4 PERFORMANCE REQUIREMENT

2.4.1 EFFICIENCY

Active average mode Efficiency (watt out / watt in) shall be a minimum of **89.00%** at 230vac/50Hz.

Active average mode Efficiency (watt out / watt in) shall be a minimum of **89.00%** at 115vac/60Hz.

Complies to EPA DOE standard specification and EU CEC standard specification (Level VI).

calculate the model is single average active mode efficiency for each test voltage by testing at 100%,75%,50%,and 25% of rated current output and then computing the simple arithmetic average of these four values respectively at 115V/60HZ and 230V/50HZ test result for reference.

Efficiency (watt out / watt in) shall be a minimum of **79.00%** at 10% full load.

Note: when testing efficiency, adapter needs to electrify to perform after full load 60 minutes

Input voltage 115Vac 60Hz or 230Vac 50Hz

2.4.2 TURN ON DELAY TIME

Output shall reach steady state within **3**seconds of turn on at 100Vac or greater.

Output shall reach steady state within **2**seconds of turn on at 240Vac or greater.

2.4.3 HOLD-UP TIME

Hold-up time shall be a minimum of **10**mS at **100Vac / 60Hz** input.

2.4.4 DYNAMIC LOAD

Power supply output voltage tolerance shall be complied with **± 10%**.

Step load change: from 50% to100% Load on the output.

Dwell Time: 100Hz & 1 KHz 50% duty.

Slew rate: 0.5A/uses

3 ENVIRONMENTAL SPECIFICATION

3.1 TEMPERATURE

Operation within specification: **-10** to **40** degrees C.

Storage: **-20** to **85** degrees C

ISSUE DATE: 2023-09-04	Revision No.: 5.0	
Specification No:	Page: 8 of 11	



3.2 HUMIDITY

Operation: 10% to 90% relative humidity, non-condensation.

Storage: 5% to 95% relative humidity, including condensation.

3.3 VIBRATION AND SHOCK

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

3.4 ALTITUDE

The power supply shall operate properly at any altitude between 0 ~ 16,404 feet (5000 meter) above sea level, and withstand storage at 50,000 feet.

3.5 CALCULATED MEAN TIME BETWEEN FAILURES (MTBF)

The MTBF for the power adapter shall equal or exceed **100,000** hours when operated at full rated load in an ambient temperature of 25 degree C.

3.6 BURN-IN

Burn-in test:

Test condition: 110Vac / 220Vac 50Hz, with 100% maximum load at 40 ±2°C ambient temperature.

Test method:

Burn-in 110 minutes; and 30 seconds "ON", 30 seconds "OFF" within 5 minutes, then 5 minutes "ON"

Test criteria:

During this conditioning the power supply output normal and no damage or hazardous condition will occur.

ORT and life test:

Input condition:

110Vac / 220Vac 50Hz, "ON/OFF" 10 times within 5 minutes, 45 minutes "ON" 45 minutes "OFF"

Test condition:

Cycle by cycle test 168 hours with 100% maximum load at 40 ±2°C ambient temperature

Test criteria:

During this conditioning the power supply output normal and no damage or hazardous condition will occur.

ISSUE DATE: 2023-09-04	Revision No.: 5.0	
Specification No:	Page: 9 of 11	



4 RELATED SPECIFICATION

4.1.1 EMI

FCC (47 CFR Part 15, Subpart B, Class B limits)

EN60601-1-2 Class-B limits (HOME HEALTHCARE ENVIRONMENT)

4.1.2 DIELECTRIC STRENGTH—(HI-POT)

Primary to secondary: 4000Vac.

Test time: 60 second

Cut-off current: 10mA max / Arcing current: 10mA max

4.1.3 SURGE

It is referring to EN61000-4-5 IEC61000-4-5:2001.

Differential mode surge immunity: 1KV

Common-mode Surge Immunity: 2KV

* Determination level: Criteria B (Product testing and testing before and after any change in function is not)

4.1.4 ELECTROSTATIC DISCHARGE ESD

It is referring to EN61000-4-2, IEC61000-4-2:2001, IEC801-2Level 4.

Contact electrostatic discharge: + - 8KV.

Air electrostatic discharge: + -15KV.

* Determination level: Criteria B (Product testing and testing before and after any change in function is not)

4.1.5 RF IMMUNITY

It is referring to IEC61000-4-3 Class A 10V/m

4.1.6 ENVIRONMENT STANDARDS

RoHS Regulation

The RoHS compliance symbol will be included on the data plate.

ISSUE DATE: 2023-09-04	Revision No.: 5.0	
Specification No:	Page: 10 of 11	



4.1.7 ELECTRICAL FAST TRANSIENTS (EFT)

It is referring to IEC61000-4-4 Class B Test Voltage: 2KV

4.1.8 CONDUCTED IMMUNITY

It is referring to IEC61000-4-6 3V and 6V at ISM frequency

4.1.9 POWER FREQUENCY MAGNETIC FIELD

It is referring to IEC61000-4-8 30A/m

5 MECHANICAL

5.1 INPUT CONNECTOR AND OUTPUT CABLE

5.1.1 INPUT CONNECTOR

AC Input connector shall be IEC320 C8 or C18 power connector.

5.1.2 OUTPUT CABLE

Please read the reference to FIG.

5.2 AC ADAPTER EXTERNAL DIMENSION

ISSUE DATE: 2023-09-04	Revision No.: 5.0	
Specification No:	Page: 11 of 11	

1

2

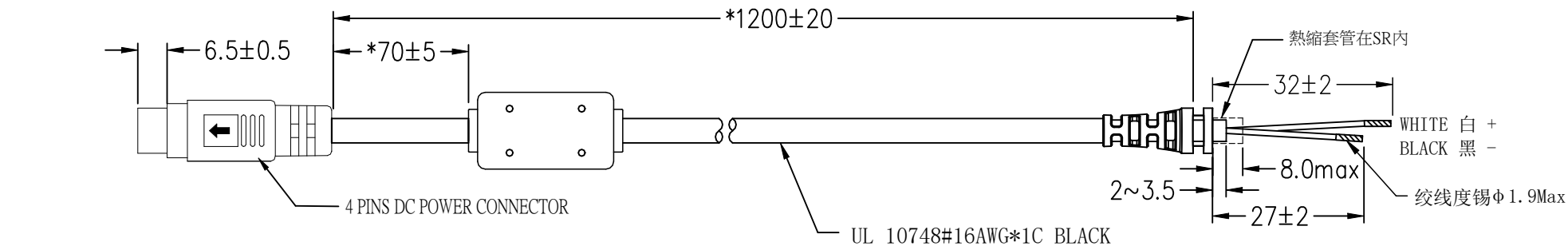
3

4

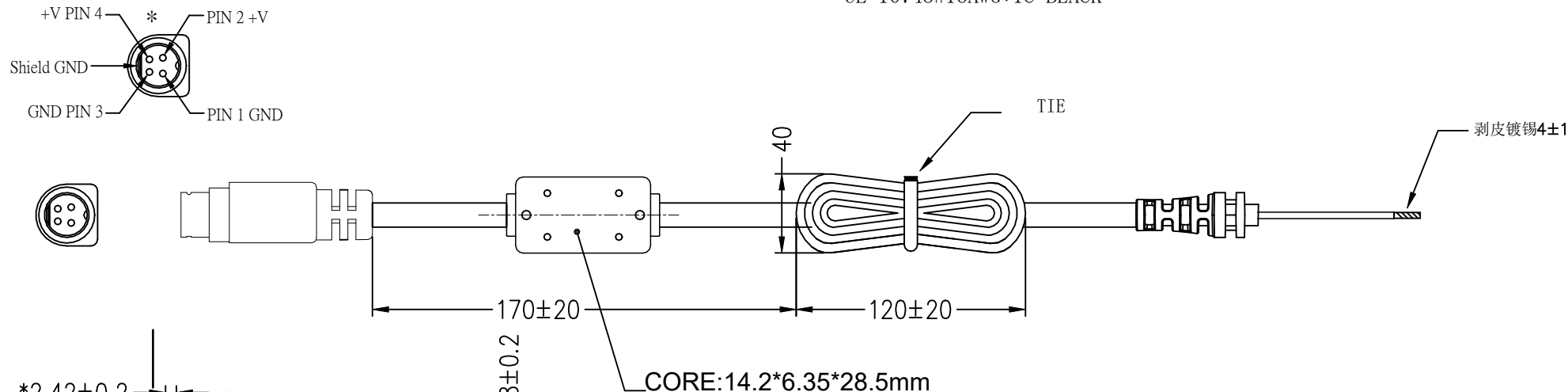
5

6

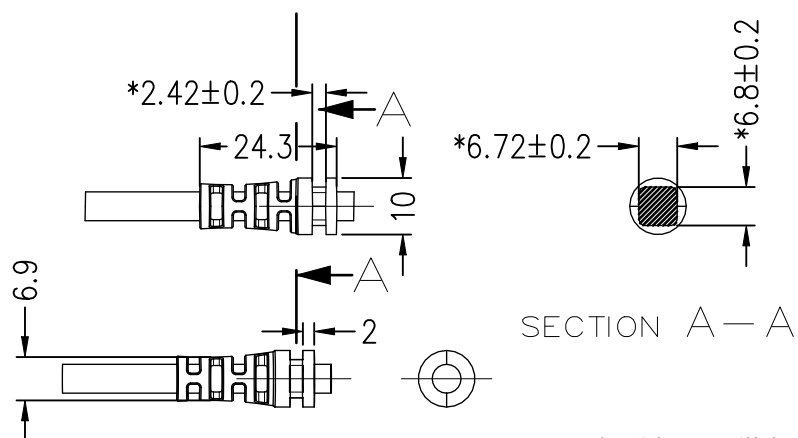
A



B



C



註:

- 一.電性測試:
 1.耐電壓:AC 500V 1秒,測試無異常.
 2.絕緣抵抗:DC 500V 50MΩ 以上.
 3.導通測試:無斷線、短路、極性反(芯線接內極).
- 二.拉力測試:電線與S/R間吊重 9Kg經過1分鐘無斷線脫落等異常.
- 三.折曲測試:
 電線吊重300g,左右各 60°往復搖擺,45次/分,往復3,000 回後,不完全斷線且外觀無脫落、斷裂等異常.

标*号为IQC 必须检查和确认的尺寸和内容
 未标注公差为 $\pm 0.5 \text{mm}$

環保材料標準:

No	有害物質名稱	含量標準	SHEET METAL TOLERANCE (UNLESS OTHERWISE SPECIFIED)			
			DIMENSION	PIERCING	BENDING	ANGULAR
1	鎘 (Cd)	<75ppm				
2	鉛 (Pb)	<800ppm				
3	汞 (Hg)	<800ppm	$X < 8$	± 0.1	± 0.15	$\pm 0.3^\circ$
4	六價鉻 (Cr)	<800ppm	$8 \leq X < 25$	± 0.1	± 0.2	$\pm 0.5^\circ$
5	多溴聯苯 (PBB)	<800ppm	$25 \leq X < 100$	± 0.15	± 0.25	$\pm 0.5^\circ$
6	多溴二苯醚 (PBDE)	<800ppm	$100 \leq X < 300$	± 0.2	± 0.3	$\pm 1^\circ$
7	鎘, 鉛, 汞, 六價鉻, (包装材料)	總含量<100ppm	$300 \leq X < 800$	± 0.3	± 0.5	$\pm 1.5^\circ$

0.1	新制訂, 在G18-B6W112A-MY00基礎上變更線徑			DESCRIPTION
REV.				MODEL NO.: KPS120-150W
				PART NO.: G18-B6W212A-MB00
	APPROVED	CHECKED	DESIGNED	DRAWING NO.:
	Xp.Zhang	Wp. Zhang	Andy	SCALE: $\frac{1}{1}$
	Date: 2023.04.20	Date: 2023.04.20	Date: 2023.04.20	SHEET 1 OF 1
	THIRD ANGLE PROJECTION			M/A3

注: KPS系列安規禁用UL1185线材, 12V機種不建議用DC頭, 耐電流不夠.

1 2 3 4 5 6

A B C

49.5⁺⁰_{-0.2}

C5

80.5⁺⁰_{-0.2}

(3X)R2

Channel Well Technology
 侨威科技股份有限公司
 侨威科技股份有限公司

AC ADAPTER/电源适配器/電源供應器/직류전원장치
 MODEL NO./型号/型號/모델명: MPS090015-CI
 INPUT/輸入/輸入/정격전압: 100-240V~ 50/60Hz 1.8A
 OUTPUT/輸出/輸出/정격출력: +15.0V $\bar{=}$ 6.0A 90.0W

핀치스 비포용기은명국제
 규격의 제형이 있으나, 규격용 영지 미 실시
 CWT Korea Co., Ltd. Tel: 070-8639-1699

Pin4 +V Pin2 +V
 Shield GND GND Pin 3 GND Pin 1

TUV SÜD CERTIFIED
 Type Approved
 Safety Register Production Certificate
 www.tuv.com ID: 11102400

CE FC UK RA
 cULus
 E316853
 Factory ID: G

IEC 60601-1
 CAN ICES(B)/NMB(B)
 This device complies with part 15 of the FCC Rules.
 Operation is subject to the following two conditions:
 (1) This device may not cause harmful interference, and
 (2) this device must accept any interference received,
 including interference that may cause undesired operation.
 CAUTION/注意
 FOR INDOOR USE ONLY/仅限室内使用/僅限室內使用
 No.222, Sec. 2, Nankan Rd.,
 Lujhu Township, Taoyuan Hsien, 33855 Taiwan, China
 Channel Well Technology(Guangzhou) Co., Ltd.
 MADE IN CHINA/中國製造/中國製造

Channel Well Technology
 侨威科技股份有限公司
 侨威科技股份有限公司

AC ADAPTER/电源适配器/電源供應器/직류전원장치
 MODEL NO./型号/型號/모델명: MPS090015-CI
 INPUT/輸入/輸入/정격전압: 100-240V~ 50/60Hz 1.8A
 OUTPUT/輸出/輸出/정격출력: +15.0V $\bar{=}$ 6.0A 90.0W

핀치스 비포용기은명국제
 규격의 제형이 있으나, 규격용 영지 미 실시
 CWT Korea Co., Ltd. Tel: 070-8639-1699

Pin4 +V Pin2 +V
 Shield GND GND Pin 3 GND Pin 1

IEC 60601-1
 CAN ICES(B)/NMB(B)
 This device complies with part 15 of the FCC Rules.
 Operation is subject to the following two conditions:
 (1) This device may not cause harmful interference, and
 (2) this device must accept any interference received,
 including interference that may cause undesired operation.
 CAUTION/注意
 FOR INDOOR USE ONLY/仅限室内使用/僅限室內使用
 No.222, Sec. 2, Nankan Rd.,
 Lujhu Township, Taoyuan Hsien, 33855 Taiwan, China
 Channel Well Technology(Guangzhou) Co., Ltd.
 MADE IN CHINA/中國製造/中國製造

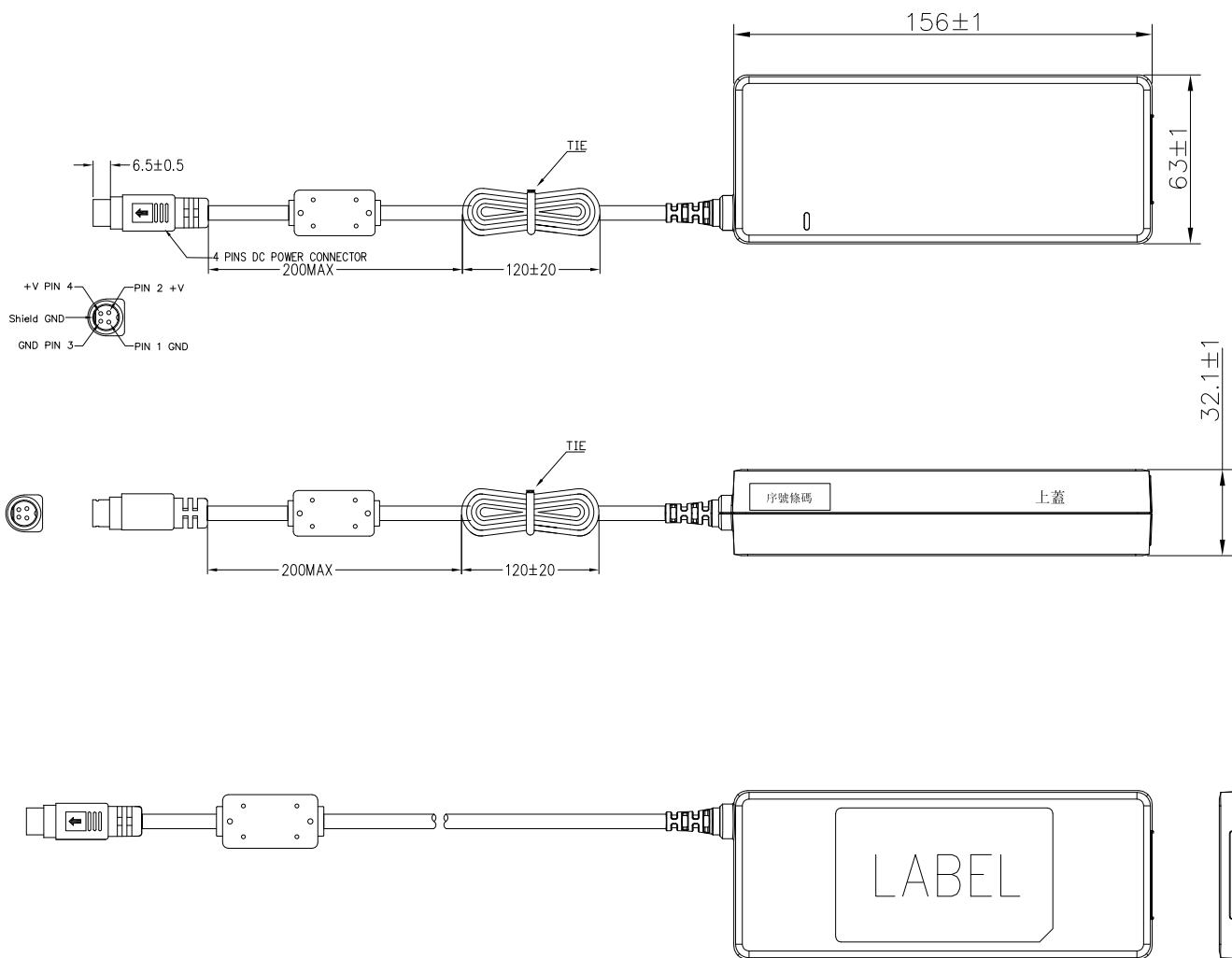
CE FC UK RA
 cULus
 E316853
 Factory ID: G

鐳雕說明:
 1. 鐳雕尺寸: 49.5*80.5mm
 2. 鐳雕內容需清晰, 平滑不可有鋸齒.

Material standard of environmental protection:

No	Hazardous Substances	Content Standards	GENERAL TOLERANCE ± (UNLESS OTHERWISE SPECIFIED)				D01	NEW		
			LEVEL	SELECT LEVEL:				REV.	DESCRIPTION	
DIMENSION	A	B		C	ANGULAR TOLERANCE	UNIT: mm	MODEL NO.: MPS090015-CI			
	1	鉛 (Cd)	< 56 ppm	X < 8			± 0.1	± 0.15	± 0.2	± 0.3°
2	鉻 (Pb)	< 700 ppm	DRAWING NO.:							
3	汞 (Hg)	< 700 ppm	8 ≤ X < 20	± 0.1	± 0.2	± 0.3	± 0.5°	DESIGNED	SCALE:	
4	六價鉻 (Cr ⁶⁺)	< 700 ppm							SHEET	
5	多氯聯苯 (PBB)	< 700 ppm	25 ≤ X < 100	± 0.15	± 0.25	± 0.4	± 0.5°	CHECKED	DATE: 2024*0111	
6	多氯二苯聯 (PBDE)	< 700 ppm							DATE: 2024*0111	
7	鄰苯二甲酸二(2-乙基)己 (DEHP)	< 700 ppm	100 ≤ X < 300	± 0.2	± 0.3	± 0.5	± 1°	APPROVED	DATE: 2024*0111	
8	鄰苯二甲酸丁(2-乙基)己 (DBP)	< 700 ppm							DATE: 2024*0111	
9	鄰苯二甲酸二(2-丙基)己 (DIBP)	< 700 ppm	300 ≤ X < 800	± 0.2	± 0.3	± 0.5	± 1.5°	SAFETY	DATE: 2024*0111	
10	鄰苯二甲酸二(4-丁基)己 (DBP)	< 700 ppm							DATE: 2024*0111	
11	包裝材料(Packaging materials)	總含量 < 100 ppm	DATE: 2024*0111		易檢華		管典鋒		SCALE:	
12	多環芳烴(化合物)(PAHs)	NA	DATE: 2024*0111		宋書軍		管典鋒		SCALE:	

版本	修訂內容	修訂者	日期
A01	新製	管典鋒	2024-09-11



NOTES:

1. CASE & CABLE COLOR : BLACK
2. CABLE SPEC.: UL 10748#16AWG*1C BLACK
3. MODEL:G99-MPS090015
4. PART NO.:G18-B6W212A-MB00

1

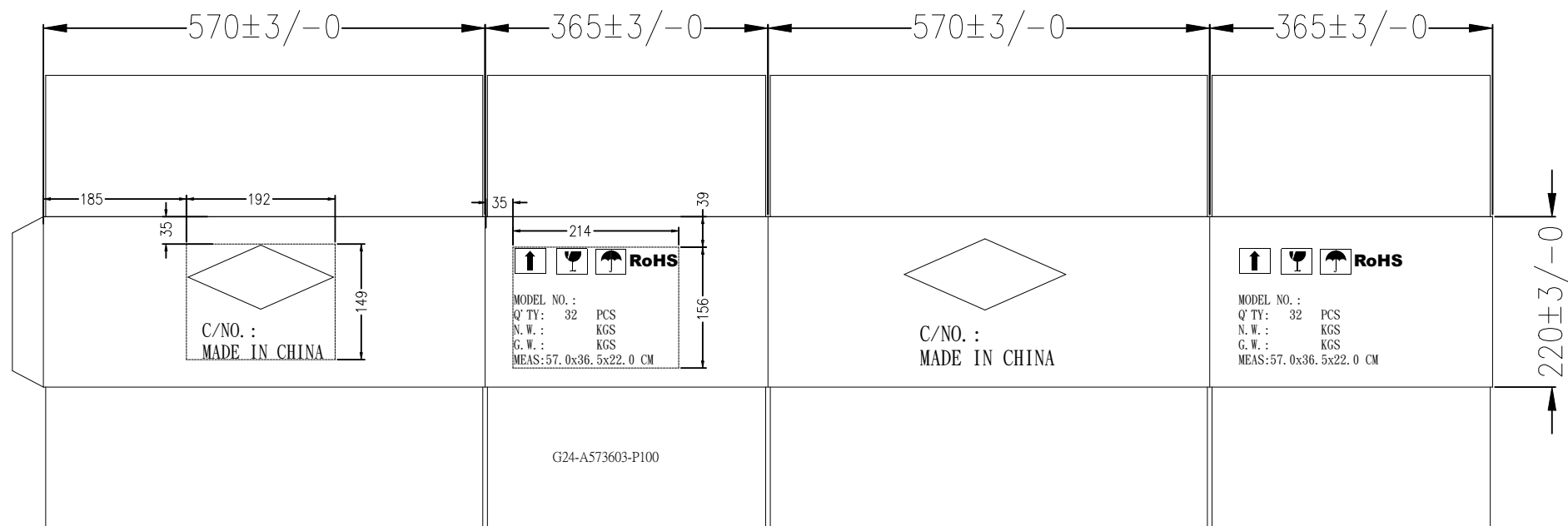
2

3

4

5

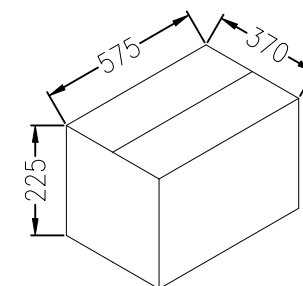
6



虛線框為標示尺寸用, 不用印出



以上符號印刷為紅色
其它印刷為黑色



外尺寸參考

NOTES:

- 材質：五層瓦楞紙(K/A)，破裂強度12.0KGS(MIN);最小綜合基重640g/m²;抗壓強度400KGS(MIN);邊壓強度6.0KN/M(MIN)
- 厚度：6±0.5mm.
- 搭配誤差：與格板之間間隙要大於2mm,小於6mm.
- 警告標志及ROHS印刷顏色：紅色(PANTONE 1788C),其它字體印刷黑色.
- 虛線為預折壓痕.
- 請依圖面標示尺寸制作.
- 公差:其它未標注公差

★ 圖形及字體公差:10mm以下為±1mm,11~50mm為±3mm, 環保材料標準:

51mm以上為±5mm,特殊情況除外.

★ 偏移公差:10mm以下為±2mm,11~50mm為±3mm,

51mm以上為±5mm,特殊情況除外.

8.結合方式(一體成形):打釘.

外箱最少要打三排釘;外箱尺寸較高時,打釘數要保證兩釘之間的距離要小於100mm,且間距保持基本均勻(公差+10/-10mm)

9.所有材料需符合RoHS環保要求.

No	有害物質名稱	含量標準	SHEET METAL TOLERANCE (UNLESS OTHERWISE SPECIFIED)				單重:g	0.1	DESCRIPTION		
1	鎘 (Cd)	<75ppm						REV.			
2	鉛 (Pb)	<800ppm	DIMENSION	PIERCING	BENDING	ANGULAR	UNIT: mm			MODEL NO.:MPS120	
3	汞 (Hg)	<800ppm	X < 8	±0.1	±0.15	±0.3°	MATERIAL			PART NO.:G24-A573603-P100	
4	六價鉻 (Cr)	<800ppm	8 ≤ X < 25	±0.1	±0.2	±0.5°	*****			DRAWING NO.:	
5	多溴聯苯 (PBB)	<800ppm	25 ≤ X < 100	±0.15	±0.25	±0.5°	APPROVED	CHECKED	DESIGNED		
6	多溴二苯醚 (PBDE)	<800ppm	100 ≤ X < 300	±0.2	±0.3	±1°	xp.zhang	wp.zhang	q.liu	SCALE: $\frac{1}{1}$	
7	鎘,鉛,汞,六價鉻,(包裝材料)	總含量<100ppm	300 ≤ X < 800	±0.3	±0.5	±1.5°	DATE: 2022.12.19	DATE: 2022.12.19	DATE: 2022.12.19	SHEET 1 OF 1	



僑威科技

M/A4 L