CUSTOMER	JAMES

SPECIFICATION FOR APPROVAL

AC/DC ADAPTOR

CUSTOMER S	PEC:INPUT:	10 <u>0-240V AC 50/60Hz OU</u>	ΓΡ UT:24VDC 1000mA
CUSTOMER D	WG./PART N	O. Wall Mount, UI	2,5.5*2.1*10mm,1.83m
PART NO.	S024-1B240	100HU	
SAMPLE NO:	M2200759	REV.: <u>I</u> SSUE	DATE: <u>2022-9-22</u>
PRDUCT NO:	SN00759DG	-	
Unit Color: Bla	ck 🔽	White	
	APPR	ROVED SIGNATURES/2	客户确认
核准/API	PROVED BY	审核/ CHECKED BY:	检测/TESTED BY:
	IV.	Ianufacturer/制造商	
业务/SALE	S 品管/QE	核准/APPROVED BY	制样/DESIGNED BY

Von Development Ltd. 旺怡發展有限公司

宋军

EDDY 袁

周松平

1A, Fook Ying Bldg, 379 Kings Road, North Point, Hong Kong TEL: 852-2187-2875 FAX: 852-3012-1881

阳灿

info@vonhk.com

Record of Revision

REV.	Description of Change(s)	Changed Date
1.0	Initial Release	13 th .September.2022
		60
	\Q_{2}	sled
	COIL	
	Mass Power Confidential.	
	80%	
	125	

ISSUE DATE:	Sales BY:	DESIGNED BY:	APPROVED BY:
13 th .September.2022		周磊涛	罗赞兴
MSP PN.:	ITEM No.:	MODEL No.	SHEET:
SN00759DG	Specification	S024-1B240100HU	Page 2 of 21

	Notice of Deviation	
Customer Request	Submitted Sample	Mass Production
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		(6)
	:10811	
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\Diamond		
, 055		
Mass		

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1.0 SCOPE

This document details the electrical, mechanical and environmental specifications of a switching power supply 24 watts of 24V which will be used, power supply is 2Pin input.

1.1 DESCRIPTION

✓ WALL MOUNT	☐ OPEN FRAME
☐ DESK-TOP	☐ POWER SUPPLY UNIT(WITH METAL CASE)
☐ INTERCHANGEABLE AC PLUG	□ OTHERS

2.0 INPUT CHARACTERISTIC

2.1 INPUT VOLTAGE RANGE

MIN.	NORMAL	MAX.
90Vac	100-240Vac	264Vac

2.2 INPUT FREQUENCY RANGE

MIN.	NORMAL	MAX.
47Hz	50/60Hz	63Hz

2.3 INPUT CURRENT

The maximum input current is 0.6A RMS at 100Vac input & full-load.

2.4 INRUSH CURRENT

Inrush current should not cause I2T of fuse and rectifier diode to exceed specification and power supply should not be damaged during 100-240VAC, 25°C cold start.

2.5 POWER CONSUMPTION

The input power should be less than 0.1W with output 0A at 115/230Vac input.

2.6 EFFICIENCY

 $\underline{86.20\%~min.}$ @ average of 25%,50%,75%,100% load at 115Vac 60Hz / 230Vac 50Hz input. (Meet DOE VI)

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3.0 OUTPUT CHARACTERISTIC

3.1 STATIC LOAD

Cutnut Voltage Total Regulation		oad Range)	
Output Voltage	Total Regulation	MIN.	MAX.	Peak
24V	22.8-25.2V	0A	1A	/

3.2 RIPPLE & NOISE

The maximum ripple must be less than <u>150mVp-p</u> when subjected to the following conditions:

1). Bandwith: 20MHz

2). Add a 47uF/50V(Low ESR) electrolytic capacitor in parallel with a 100nF/50V ceramic capacitor at the point of output load.

3). Line Voltage: 90Vac,115Vac,230Vac,264Vac

4). Output Load: 0,25%,50%,75%,100%

5). Ambient: 25°C

3.3 TURN ON DELAY TIME

Measure output delay time at the rated load by 115Vac condition 4sec Max.

3.4 HOLD UP TIME

10 msec minimum from loss of 115Vac/60Hz input at maximum load .

3.5 RISE TIME

The output voltage shall rise from 10% to 90% of nominal to within the regulation ranges within 30mS at Full load @ 90Vac,115Vac,230Vac,264Vac input.

3.6 OVERSHOOT & UNDERSHOOT

The overshoot shall less than 10% of nominal voltage at power on stage, recovery less than 100mS, when turn off the unit, The output voltage undershoot shall not happen.

3.7 TRANSIENT RESPONSE

The overshoot and undershoot should be less than $\pm 10\%$ of the nominal output voltage. Test condition:

Slew rate: 0.15A/uS, 20%~80%~20% of maximum load

T1=T2=5mS, 115Vac/60Hz, 230Vac/60Hz input.

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3.8 LINE REGULATION

The line regulation of rated output voltage is less than $\pm 5\%$ while measuring at rated load and +/-10% of input voltage changing.

3.9 LOAD REGULATION

The load regulation of rated output voltage is less than $\pm 5\%$ at measured output load from 10% to 100% rated load

4.0 PROTECTION REQUIREMENT

4.1 OVER VOLTAGE PROTECTION

The power supply shall be niccupped when output voltage reaches to its over –
voltage protection trigger point <u>36V Max.</u>
\square The power supply shall fail but safe – $$ the input power shall be less than $___$ W.
▼ The power supply shall be self – recovering when the fault condition is
removed.
\square The power supply will go into latch-off mode, and have to OFF and $$ ON the AC $$
input to restart the power supply.

4.2 OVER CURRENT & SHORT CIRCUIT PROTECTION

The power supply shall be hiccupped when operating any output in overload
condition (2A Max.), or when operating any output in a short circuit condition.
\square The power supply short ciruit protection – the input power shall be 0-8 W.

!	The power	supply shall be self –	recovering_when	the fault	condition is
	removed.	00,			

☐ The power supply will	go into latch-of	f mode, a	ind have to	OFF and	ON the AC
input to restart the po	wer supply.				

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5.0 ENVIRONMENTAL CONDITIONS

5.1 OPERATING

The power supply shall be capable of operating continuously in any mode without performance deterioration in the following environmental conditions.

5.1.1 Ambient Temperature: <u>0°C</u> ~40°C @ full load

5.1.2 Relative Humidity: 20% ~ 98% Non-Condensing

5.1.3 Altitude : Sea level to -50m ~ 5000m.

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:

5.2.1 Ambient Temperature: -20°C ~ +80°C

5.2.2 Relative Humidity: 20% ~ 98% Non-Condensing

5.2.3 Altitude : Sea level to -50m ~ 5000m.

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6.0 ELECTRO MAGNETIC COMPATIBILITY

6.1 EMI STANDARDS

The power supply shall meet the radiated and conducted emission requirements for FCC part 15 CLASS B

6.2 EMS STANDARDS

The power supply shall meet the following EMS standards EN55035

6.2.1 EN61000-4-2 Electrostatic Discharge (ESD)

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

4KV contact discharge, 8KV air discharge,

Performance Criterion A.

6.2.2 EN61000-4-3 RADIATED ELECTROMAGNETIC FIELDS(RS)

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

6.2.3 EN61000-4-4 Electrical Fast Transient / Burst (EFT)

Power Line to Line: 1KV

Line to earth: 1KV

Performance Criterion A.

6.2.4 EN61000-4-5 Lightning Surge (1.2/50uS-8/20uS Combination Wave)

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

Line to Earth: 1KV

Performance Criterion A.

6.2.5 EN61000-4-6 CONDUCTED RADIO FREQUENCY DISTURBANCES(CS)

Conducted Radio Frequency Disturbances Test, CS, 0.15-80 MHz, <u>3Vrms</u>, 80%AM, 1KHz, Performance Criterion A.

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7.0 RELIABILITY AND QUALITY CONTROL

7.1 MTBF

The MTBF shall be at least 50,000 hours at 25°C, full load, 115Vac/60Hz and 230Vac/50Hz input, following SR-332 issue03(2011).

7.2 BURN-IN

The power supply shall undergo a minimum of $\underline{4}$ hours Burn-In test at $40^{\circ}\text{C} \pm 5^{\circ}\text{C}$ under full load and nominal input voltage for QA test.

The power supply shall undergo a minimum of $\underline{2}$ hours Burn-In test at $40^{\circ}\text{C} \pm 5^{\circ}\text{C}$ under full load and nominal input voltage for mass production.

7.3 ELECTROLYTIC CAPACITOR LIFE TIME

Masspor

The life time of Electrolytic Capacitor should be greater than $\underline{2}$ years under $\underline{120V}$ 60Hz/ 230V 50Hz input @25°C ambient condition with full load.

The Electrolytic Capacitor life calculated base on actual temperature measurement and shall take into account all factors which affect life base on each capacitor vendor's Electrolytic Capacitor life formula. (For example capacitor temperature and ripple current).

7.4 DROP TEST

All types of wall mount and desktop power supply products are required to have a drop test to be verified.

The testing height must be 100cm +/-1cm from the ground, drop one times for each welding side of the product (total 6 times), drop on the 30mm hardwood surface.

All power supply products must meet the requirement on the specification and do not have any isolation broken.

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8.0 MECHANICAL

8.1 INPUT AND OUTPUT CONNECTOR ASSIGNMENT

The power supply shall provide input connectors as in table 8.1

PIN#	Polarity
1	Line
2	Neutral

Table 8.1 Top view of AC input Pin assignment

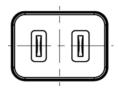


Table 8.2 Top view output Pin assignment



8.2 PHYSICAL DIMENSIONS

The detail dimension of the power supply, please see attachment.

8.3 LABEL

The label of the power supply, please see attachment.

8.4 WEIGHT

The weight of the power supply shall be Approx $\underline{117.0g \pm 5\%}$.

8.5 CONNECTOR TYPE

AC INPUT	UL 2PIN
DC OUTPUT	5.5*2.1*10mm Fork & Groove, UL2468, 24AWG, 1830mm

9.0 SAFETY

9.1 REGULATORY STANDARD

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

	Country	Certified Status	Standard
UL/cUL	America / Canada	Approved	UL 62368-1 / CSA C22.2

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9.2 INSULATION RESISTANCE

Input to output: Min. 10 $M\Omega$ at 500VDC.

9.3 DIELECTRIC STRENGTH (HI-POT)

Primary to Secondary (Without Ground): <u>AC 3000V</u>, <u>10mA Max</u>, 1 minute for type test. Primary to Secondary (Without Ground): <u>AC 3600V</u>, <u>10mA Max</u>, 2S for production Note: The negative of secondary is connected with Ground.

9.4 LEAKAGE CURRENT

The leakage current shall be less than <u>0.25mA</u>, when power supply is operated maximum input voltage and maximum load.

10.0 ENVIRONMENTAL COMPLIANCE

10.1 RoHS

Meet 2011/65/EU directive and its amendment (EU) 2015/863

10.2 Packaging

Meet EU94/62/EC directive

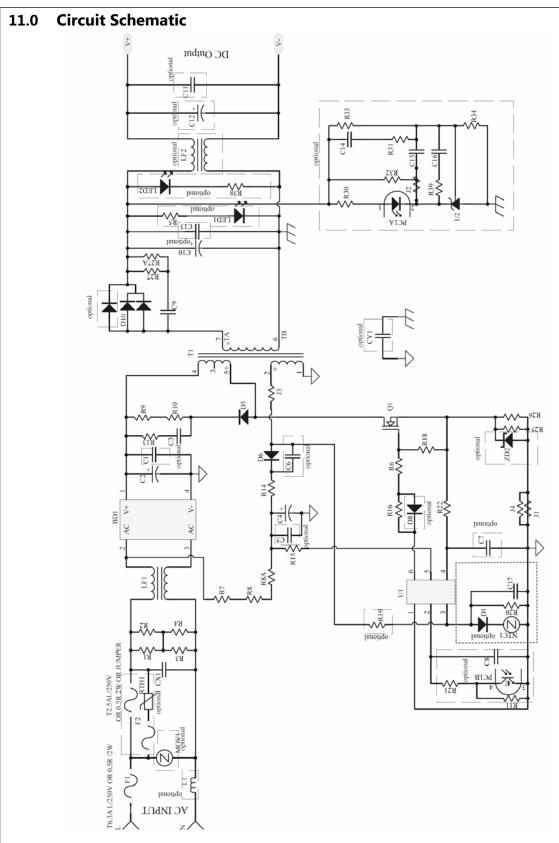
10.3 REACH

Meet EU 2006/1907/EC directive

10.4 WEEE (Waste Electrical and Electronic Equipmeng)

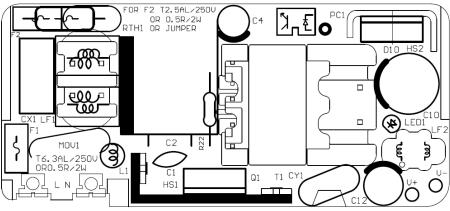
Meet EU 2012/19EC directive

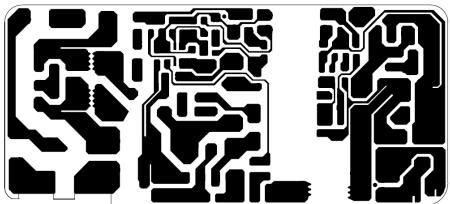
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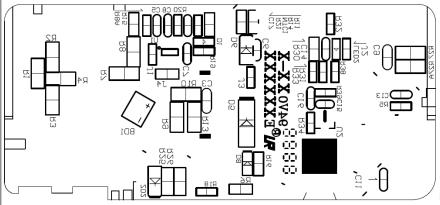


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12.0 PCB Layout









Notes:

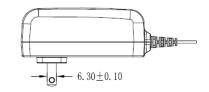
PCB white area laser QR code

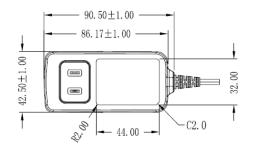
The QR code's number have nine digits, For Example: 123456789

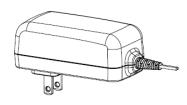
- 1. Number 1, means laser mechine No.: 1~9, A~Z(no include I,O)
- 2. Number 2, means Year, 1~9,A~Z(no include I,O), for example "9 for 2019" A" for 2020
- 3. Number 3, means Month,1~9 for Jan to Sep, "A" for Oct, "B" for Nov, "C" for Dec
- 4. Number 4, means Date,1~9,A~X(no include I,O),for example "9AA" for 2019/10/10
- 5. Number 5 to 8, means serial number: 1~9, A~Z(no include I,O), first number:0001
- 6. Number 9 , means PCB code : $1\sim9$, $A\sim Z(no\ include\ I,O)$

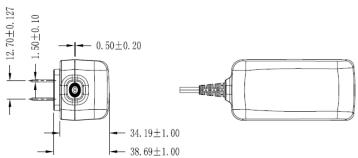
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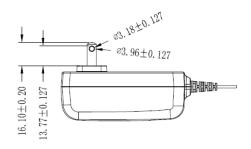
13.0 OUTLINE DRAWING

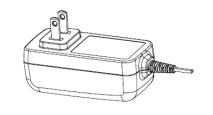


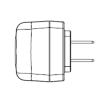












Notes:

1. Physical size: 90.50 ± 1.0 mm(L)* 42.50 ± 1.0 mm(W)* 38.69 ± 1.0 mm(H)

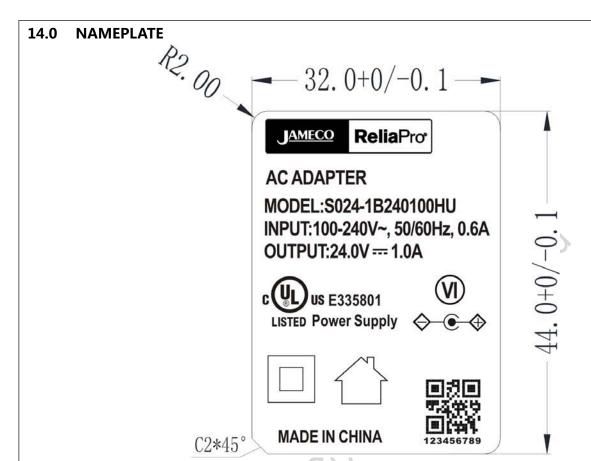
2. Unit: mm

3. Material: PC945, UL94V-0

4. Color: BLACK

5. AC Input Plug: UL

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Notes:

Unit: mm

1.Laser

The QR code's number have nine digits, For Example: 123456789

Number 1 to 2, means laser mechine No.:per code 1~9, A~Z(no include I,O)

Number 3, means Year, 1~9,A~Z(no include I,O), for example "9" for 2019," A" for 2020

Number 4, means Month,1~9 for Jan to Sep, "A" for Oct, "B" for Nov, "C" for Dec

Number 5, means Date,1~9,A~X(no include I,O),for example "A5G" for 2020/05/16

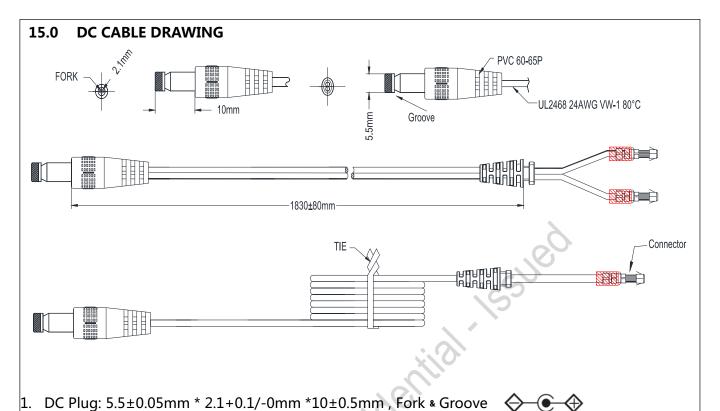
Number 6 to 9, means serial number: 1~9, A~Z(no include I,O)

QR code size:7mm*7mm, type: QR Code

Digit Size:0.9mm(H) (±0.5mm)

The distance from QR code size to the digit size:0.5-1mm

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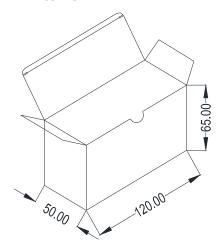


- 2. Wire: UL2468 , 300V , 80°C , 24AWG , 1830±80mm
- 3. Polarity: BLACK and WHITE----Positive, BLACK----Negative
- 4. DC Jack: PVC

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16.0 PACKING DRAWING

6.1 White Box

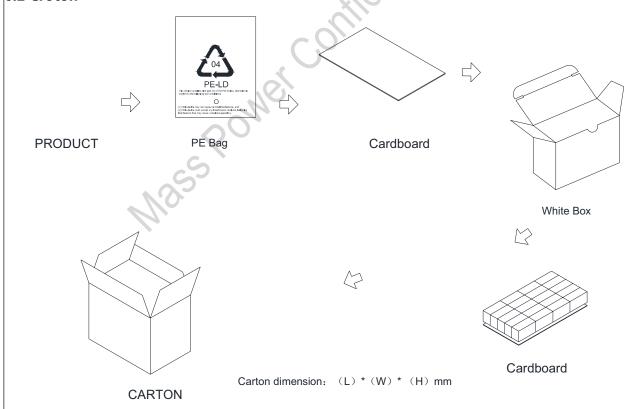


1. Unit: mm

2. Size: 120±1mm *50±1mm*65±1mm

3. Material: 400g

6.2 Croton



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CERTIFICATE OF COMPLIANCE

Certificate Number 20180911-E335801

Report Reference E335801-A6005-UL

Issue Date 2018-SEPTEMBER-11

Issued to: MASS POWER ELECTRONIC LTD

10TH FL, TOWER A BILLION CENTRE

1 WANG KWONG RD KOWLOON BAY

KOWLOON HONG KONG

HONG KONG

This is to certify that representative samples of

Power Supplies for Use in Audio/Video, Information and

Communication Technology Equipment

AC ADAPTER, Models S024-1BxxxyyyHU, S024-1BxxxyyyVU, S024-1BxxxyyyD5, S024-1BxxxyyyM2

(xxx=090-150 or 180-240, indicates rated output voltage range 9.0-15.0 or 18.0-24.0Vd.c., with step 0.1Vd.c., yyy=005-266, indicates rated output current range 0.05-

2.66A, with step 0.01A)

Have been investigated by UL in accordance with the

Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 62368-1, Audio/Video, Information and Communication

Technology Equipment Part 1: Safety Requirements CSA C22.2 No. 62368-1-14, Audio/Video, Information and Communication Technology Equipment Part 1: Safety

Requirements

Additional Information: See the UL Online Certifications Directory at

www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.

Bambles

Bruce Mahrenholz, Director North American Certification Program

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FCC Part 15 Verification

No.8, JinQianLing street 5, DongHuan Road, Huangjiang Town, Dongguan, China.

Te I: 86-769-39001678 Fax: 86-20-62824387 www.i-testlab.com

No. ITL- D210430003-1

Applicant : Mass Power Electronic Limited

10/F, Tower A, Billion Centre 1 Wang Kwong Road, Kowloon Bay, Kowloon, Hong Kong Address

Product : AC Adaptor

: S024-1BxxxyyyHU; S024-1BxxxyyyVU; S024-1BxxxyyyD5; S024-1BxxxyyyM2 (More details see test report) Model No.

Technical data : 100-240V~ or 100-120V~, 50/60Hz, 0.6A

The above product, has been type- tested for compliance with

Conducted Emissions with limits described at FCC Part 15B Class B per section 15.107

Radiated Emissions with limits described at FCC Part 15B Class B per section 15.109

in a Listed test laboratory according to FCC rules section 2.948 for measuring devices under Parts 15. Enclosed please find the verification test report.

For home or office use

Approved By:

Signature Date: Apr. 30, 202

ITL CO., LTD Test Report No. D210430003

ISSUE DATE:	Sales BY:	DESIGNED BY:	APPROVED BY:
13 th .September.2022	周露	周磊涛	罗赞兴
MSP PN.:	ITEM No.:	MODEL No.	SHEET:
SN00759DG	Specification	S024-1B240100HU	Page 21 of 21