

SPECIFICATION FOR REFERENCE

CUSTOMER : _____

CUSTOMER P.N. : _____

MODEL NO. : _____ **MA-Z2530R190-048M0-E** _____

PRODUCT NO. : _____ **SCXXX-E0/XXXXXX** _____

SAMPLE DATE : _____ **2023-08-21** _____

CUSTOMER AUTHORIZED SIGNATURE		

Please return to us one copy of "SPECIFICATION FOR APPROVAL"
with you approved signature.

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3.4.Hold-up Time

10mS min. @ Full load &115Vac/60Hz input turn off at worst case.

20mS min. @ Full load &230Vac/50Hz input turn off at worst case.

3.5. Rise Time

20mS max. @ Rated load

3.6. Fall Time

20mS max. @ Full load

3.7.Output Overshoot / Undershoot

10% max. When the power on or off

3.8.Output Load Transient Response

output voltage within 17.1-20.9V for load step from 20% to 80%, R/S: 0.5A/uS,
frequency: 100Hz duration and 8mS at 80%.

4. Protection Requirements

4.1.Over Current Protection

Over Current Point Limited: $2.9A < I < 5.0A$ (100Vac-240Vac)

The output shall hiccup when the over currents applied to the output rail, and shall be self-recovery when the fault condition is removed

4.2.Short Circuit Protection

The input power shall decrease when the output rail short, the power supply shall no damage, and shall be self-recovery when the fault condition is removed

5. Environment Requirements

5.1.Operating Temperature and Relative Humidity

0°C to +40°C

20%RH to 85%RH

5.2.Storage Temperature and Relative Humidity

-20°C to +70°C

5%RH to 95%RH non-condensing @ Sea level shall be low 5000 meters.

5.3.Vibration

10 to 300Hz sweep at a constant acceleration of 1.0G(Breadth: 3.5mm) for 1Hour for each of the perpendicular axes X, Y, Z

5.4.Drop in

Height: 1m; the product should be fell off on the hardwood with the thickness of 20mm. Apply one time on all surfaces, totally 6 surfaces. The electric performance and Hi-Pot test must be OK after the drop tests.

6. Reliability Requirements

6.1.Burn-in

The power supply shall be burn-in for 4 Hours under normal input and 80% rated load at $35^{\circ}\text{C} \pm 5^{\circ}\text{C}$

6.2.MTBF Qualification

The MTBF shall be at least 100,000hours at 25°C, 80% max load and nominal input condition

7. EMI/EMS Standards

7.1. EMI Standards

FCC Part 15 Subpart B
GB13837/GB17625.1 EN55032 EN55035

7.2. EMS Standards

7-2-1 EN 61000-4-2,electrostatic discharge(ESD) requirement

Discharge characteristic	Test level	Test criteria
Air discharge	+/-15KV	B
Contact discharge	+/-8KV	B

7-2-2 EN 61000-4-3,radiated electromagnetic field susceptibility(rs)

Test level	Test criteria
3V/m (r.m.s)	A
80-1000MHz,80%AM(1KHz) sine-wave	

7-2-3 EN 61000-4-4,electric fast transients(burst) immunity requirement

Coupling	Test level	Test criteria
AC-input	1KV	A
AC-input	2KV	B

7-2-4 EN 61000-4-5,surge capability requirement

Surge voltage	Test criteria
Common mode +/-2KV	B
Differential mode +/-1KV	

7-2-5 EN 61000-4-6, Induced radio frequency fields conducted disturbances immunity requirement

Test level	Test criteria
3V	A
0.15-80 MHz,80%AM(1KHz)	

7-2-6 Assessment criteria

Acceptance criteria	Performance
A	Agreed operational behavior within the specified limits
B	Time limited functional diminishment or malfunction during the tests is permitted . The function is self-reactivated by the unit following completion of the tests .
C	Malfunction is permitted .The function can be reactivated either by reconnection to the mains or by operator intervention .

8. Safety Standards

8.1.Dielectric Strength(Hi-pot)

Primary to Secondary: 3000Vac /10mA max. / 60S (when safety testing).

Primary to Secondary: 3300Vac /5mA max. / 3S (when production).

8.2.Leakage Current

0.25mAmax. at 264Vac / 60Hz

8.3.Insulation Resistance

100MΩ min. at primary to secondary add 500Vdc test voltage

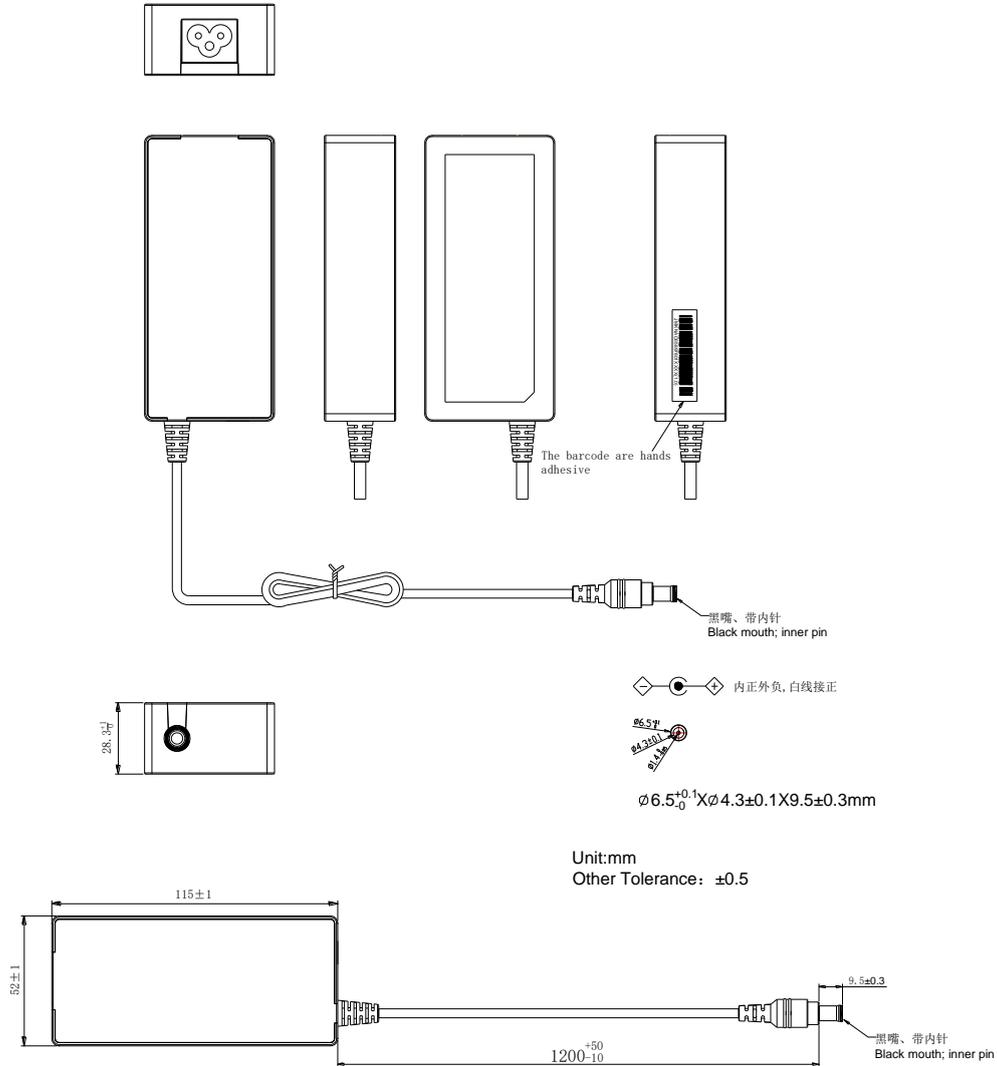
8.4.Earthing Resistance

Earthing Resistance: <0.1 Ω at 12Vdc/25A/1S.

8.5.Regulatory Standards

Type	Country	Standard	State	
UL	USA	UL62368-1	APPROVAL	
CCC	CHINA	GB8898	APPROVAL	
CE	Europe	EN62368-1	APPROVAL	
UKCA	UK	EN62368-1	APPROVAL	

9. Mach. Outline Drawing

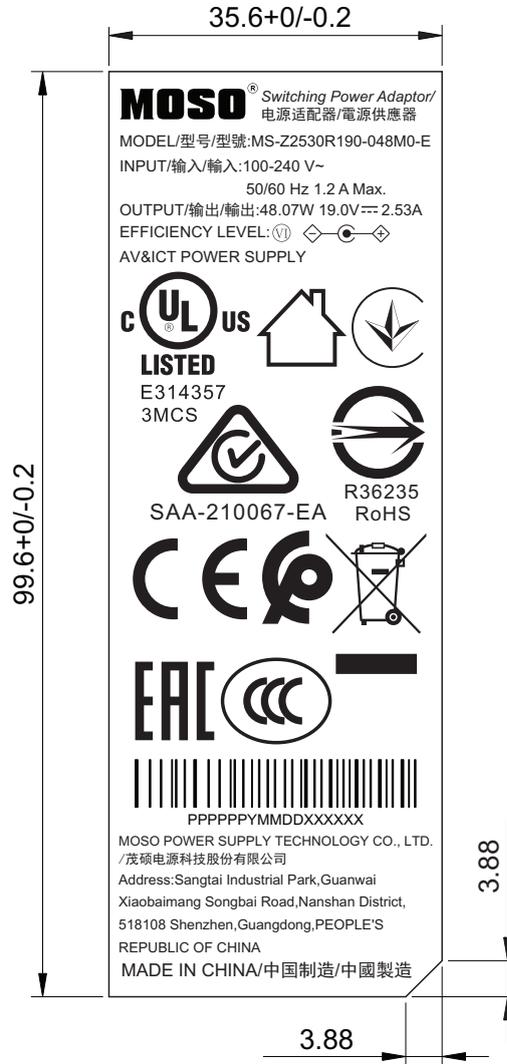


Case material: ■ PC temperature resistance: 125°C

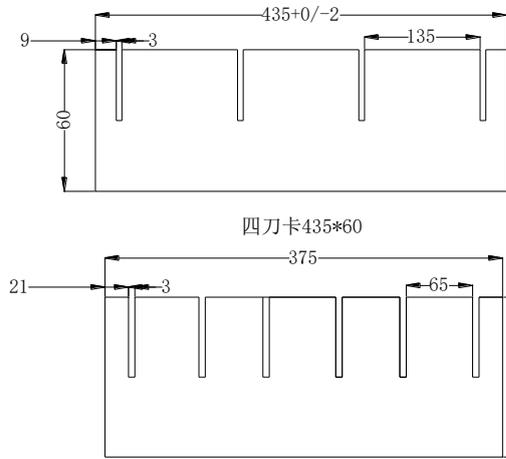
□ PC+ABS temperature resistance: 95°C

Remark: PC material compliances with ball pressure testing requirement.

10. I/O Marking Drawing



11. Package Drawing



包装说明:

- 一、将产品每PCS装入250*120 (mm)PE袋中包好, 再将包装的产品放入刀卡槽中, 每层装15PCS, 共装5层, 每箱装75PCS

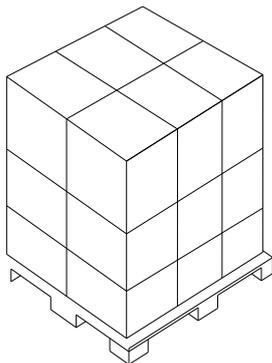
即: 15pcs/层*5层=75PCS/箱

二、包装材料使用说明为:

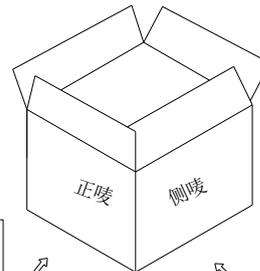
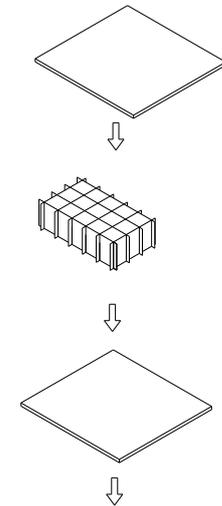
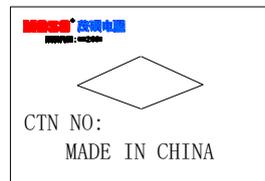
- 1、四刀卡435*60用量: 30PCS
- 2、六刀卡375*60用量: 20PCS
- 3、PE袋250*120用量: 75PCS
- 4、平卡435*375用量: 6PCS
- 6、纸箱450*390*335: 1PCS

三、栈板堆放说明为:

- 1、栈板尺寸为: L1150*W1050*H160mm
- 2、每层放2行*3列=6箱
- 3、竖直堆放3层*6箱共18箱



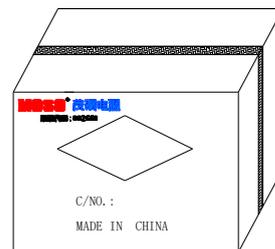
栈板堆放示意图



P/O NO.
ITEM NO.
QTY
G. W. : N. W. :
CTN SIZE:

450*390*335MM

纸箱的外尺寸: 450L*390W*335H



产品装入包装箱用胶袋封箱, 位置参考图中所示.

- The requirement of PE bag packing: PE bag without sealing by adhesive tape.
 PE bag with sealing by adhesive tape.
 Other requirement

Remark: If the customer has not chose the PE bag packing way, we will use the PE bag without sealing by adhesive tape.