

SPECIFICATION FOR REFERENCE

CUSTOMER : _____

CUSTOMER P.N. : _____

MODEL NO. : _____ **MS-H0700R540-038C0-CN** _____

PRODUCT NO. : _____ **SCXXX-U0/XXXXXX** _____

SAMPLE DATE : _____ **2023-08-11** _____

CUSTOMER AUTHORIZED SIGNATURE		

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

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

3.5. Rise Time

100mS max. @ Rated load.

3.6. Fall Time

50mS max. @ Full load.

3.7. Output Overshoot / Undershoot

10% max. When the power on or off, when it is the full input voltage and full load.

3.8. Output Load Transient Response

Output voltage within 48.6V~59.4V 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: $1.4A > I > 0.8A$ (200-240Vac)

The output shall hiccup when the over current 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.

4.3. Over Voltage Protection

The power supply has to be protected against over voltage conditions. No damage allowed. The power supply must come back to nominal working without on/off powering after removal of the over voltage condition.

5. Environment Requirements

5.1. Operating Temperature and Relative Humidity

0°C to +45°C

10%RH to 90%RH

5.2. Storage Temperature and Relative Humidity

-20°C to +70°C,

5%RH to 95%RH

5.3. Sea level 5,000 meters

5.4. 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.

5.5. Drop Test

Height: 1m; the product should be fell off on the hardwood with the thickness of 20mm, Apply one times on all surfaces, total 6 times. 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 40°C ± 5°C. the electric performance and Hi-Pot test must be OK.

6.2. MTBF

The MTBF shall be at least 50,000H at 25°C, under 100% load at 230VAC input condition. Standard:SR-332.

6.3. E-caps lifetime

The E-caps used in this PSU must be with lifetime of 3 years @ 25°C at 230VAC input condition.

7. EMC Standards

7.1. EMI Standards

GB/T9254

GB17625.1

7.2. EMS Standards

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

Discharge characteristic	Test level	Test criteria
Air discharge	+/-8KV	A
Contact discharge	+/-4KV	A

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	A

7-2-4 EN61000-4-5, surge capability requirement

Surge voltage	judgment criteria
Common mode/ +/-2KV	A
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. / 60second.

Primary to Secondary: 3300Vac/5mA max. /3S for production.

8.2. Leakage Current

0.25mA max. at 264Vac / 60Hz.

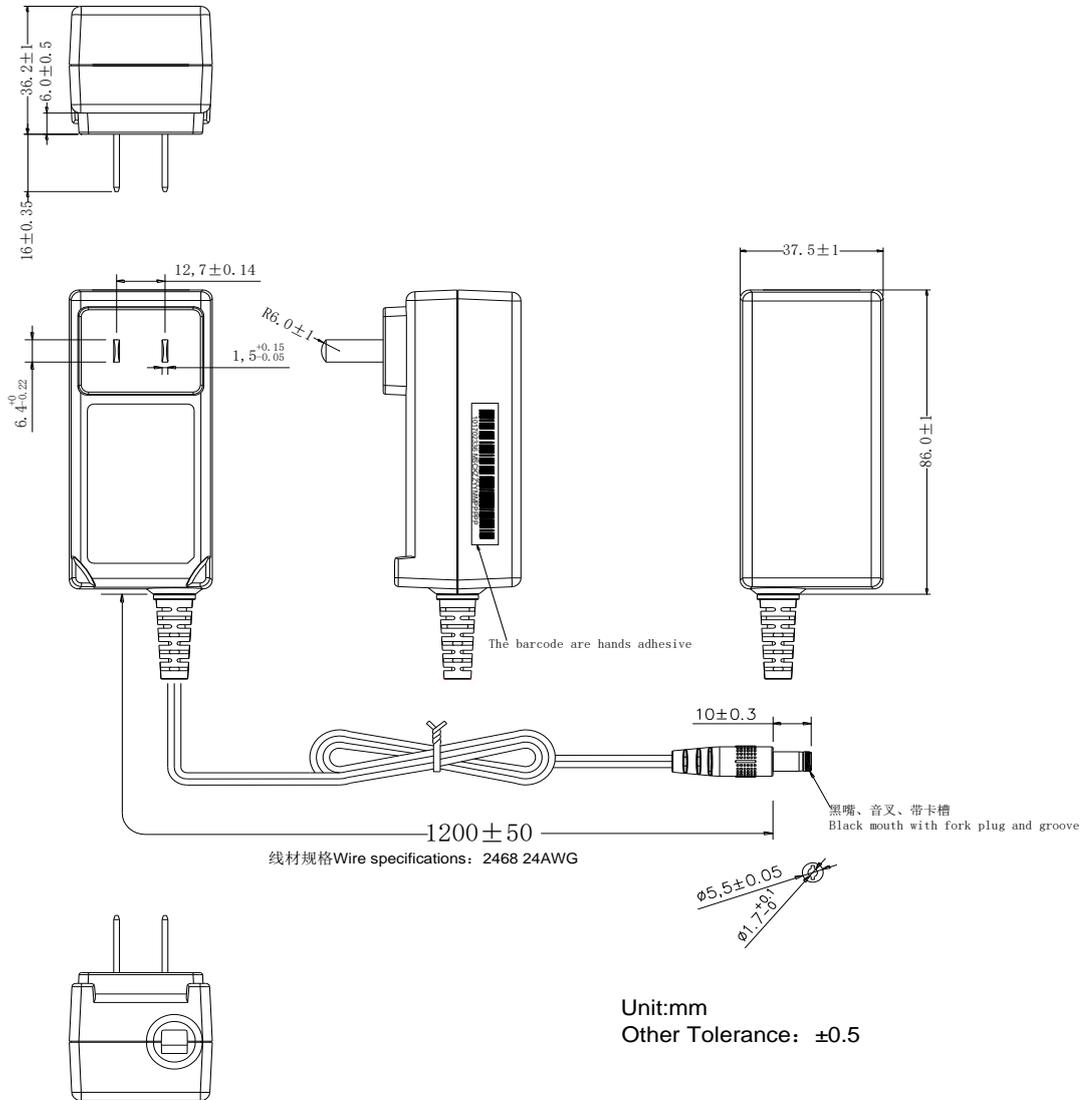
8.3. Insulation Resistance

50MΩ min. at primary to secondary add 500Vdc test voltage.

8.4. Regulatory Standards

Type	Country	Standard	State	Note
CCC	China	GB4943.1	Approved	

9. Mechanical Outline Drawing



Case material: PC temperature resistance: 120°C

PC+ABS temperature resistance: 95°C

Remark: 1) PC material compliances with ball pressure testing requirement.

2) The color of the casing and DC cable is Black(1101M).

10. I/O Marking Drawing



备注:
1. 铭牌镭射;
2. 回字高度不小于5mm.