茂硕电源科技股份有限公司
MOSO POWER SUPPLY TECHNOLOGY CO., LTD

MOSOIndustrial Park, Nanshan District,
Shenzhen, Guangdong 518108, P. R. China
TEL: 86-755-27657000
27657555P.C:518108
FAX: 86-755-27657908
http://www.mosopower.com

参考规格书

SPECIFICATION FOR REFERENCE

CUSTOMER/客户： _____

CUSTOMER P.N./客户物料号： _____

MODEL NO./产品型号： MS-T8000R540-430A1

PRODUCT NO./产品编号： SCXXX-F0

SAMPLE DATE/送样日期： 2020-06-11

CUSTOMER AUTHORIZED SIGNATURE/客户承认签核		

Please return to us one copy of "SPECIFICATION FOR APPROVAL" with you approved signature./客户确认签字，盖章后请回传一份承认书给我司.

ADD: MOSO Industrial Park, Nanshan District, Shenzhen, Guangdong 518108, P. R. China
地址:深圳市南山区茂硕科技园
TEL: 86-755-27657000 27657555 P.C.: 518108
FAX: 86-755-27657908
E-mail:moso@mosopower.com http://www.mosopower.com

拟　制：	项目工程师：	安规工程师：	批　准：

MOSO® 茂硕电源
股票代码：002660

茂硕电源科技股份有限公司
MOSO POWER SUPPLY TECHNOLOGY CO., LTD

MOSOIndustrial Park, Nanshan District,
Shenzhen, Guangdong 518108, P. R. China
TEL: 86-755-27657000
27657555P.C:518108
FAX: 86-755-27657908
http://www.mosopower.com

E. C. LIST/变更履历表

Rev. 版本	Description of Change/变更内容描述		Changed Date/日期	ECN No.
	Before/变更前	After/变更后		
A1	Original Release（初次发行）	---	2020-06-11	---

MOSOIndustrial Park, Nanshan District,
Shenzhen, Guangdong 518108, P. R. China
TEL: 86-755-27657000
27657555P.C:518108
FAX: 86-755-27657908
http://www.mosopower.com

** Table Of Content/目录**

1.SCOPE/范围 4
1.1. Description 4
2.Input characteristics/输入特性 4
2.1. Input voltage & frequency/输入电压与频率 4
2.2. Input AC current/AC 输入电流 4
2.3. Inrush current (cold start)/浪涌电流(冷启动) 4
2.4. Typical efficiency/典型效率 4
2.5. Energy consumption /功耗 4
2.7. Power factor/功率因素 5
3.Output characteristics/输出特性 5
3.1. Static output characteristics <Vo&R+N>/静态输出特性 5
3.2. Line/ load regulation/线性/负载调整率 5
3.3. Description of output characteristics /输出特性说明 5
3.4. 负载冲击/ load impact 6
3.5. Turn on delay time/开机延迟时间 6
3.6. Hold-up time/关机维持时间 6
3.7. Rise time/上升时间 6
3.8. Fall time/下降时间 6
3.9. Output overshoot / undershoot/输出过冲/欠冲 6
3.10. Output load transient response/输出负载瞬态响应 6
4.Protection requirements/保护要求 6
4.1. Input over voltage protection /输入过压保护 6
4.2. Over current protection/过流保护 6
4.3. Short circuit protection/短路保护 7
4.4.Output over Voltage protection/输出过压保护 7
4.4. Over temperature protection/过温保护 7
4.5. Output polarity protection/输出极性保护 7
4.6. Input under voltage protection /输入欠压保护 8
5.485 Communication protocol/485 通讯协议 8
5.1. 通讯电路设计/ Communication circuit design 8
5.2. Features/功能特性 8
6.The cooling way/ 散热方式 8
7.Environment requirements/环境要求 8
7.1. Operating Temperature and Relative Humidity 操作温/湿度要求 8
7.2. Storage remperature and relative humidity/存储温/湿度要求 8
7.3. Shell operating temperature/外壳工作温度 9

MOSOIndustrial Park, Nanshan District,
Shenzhen, Guangdong 518108, P. R. China
TEL: 86-755-27657000
27657555P.C:518108
FAX: 86-755-27657908
http://www.mosopower.com

7.4. Sea level ≤2,000 meters/海拔≤2,000 米 9
7.5. Vibration/振动 9
7.6. Impact/冲击 9
7.7. Drop/跌落 9
8.Reliability Requirements/可靠性要求 9
8.1. Burn-in/煲机 9
8.2. Mean time between failures/平均无故障时间 9
8.3. Protection Grade/防护等级:IP2X 9
8.4. Three Preventions/三防 9
8.5. E-caps lifetime/电容寿命 10
9.EMI/EMS Standards/EMI/EMS 标准 10
9.1. EMI Standards/EMI 标准 10
9.2. EMS Standards/EMS 标准 10
10. Safety Standards 安规标准 11
10.1. Dielectric Strength(Hi-pot) 耐压强度(高压) 11
10.2. Leakage Current/漏电流 11
10.3. Insulation Resistance/绝缘阻抗 12
10.4. Grounding impedance test /接地阻抗测试 12
10.5. Safety Standards 安规标准 12
11. Schematic diagram of circuit/电路原理框图 12
12. Appearance mechanism diagram /外观示意图 13
12.1. 220*118*50.8mm (L*W*H) 13
12.2. Description of connector/接口说明 14
13. Nameplate Drawing/铭牌示意图 15

MOSOIndustrial Park, Nanshan District,
Shenzhen, Guangdong 518108, P. R. China
TEL: 86-755-27657000
27657555P.C:518108
FAX: 86-755-27657908
http://www.mosopower.com

1. SCOPE/范围

MS-T8000R540-430A1 is a single output closed battery charger with small volume, conversion efficiency up to 92%, long life DC fan forced cooling and heat dissipation mode, high reliability, longer power life. The charging adopts MCU intelligent detection, communication and control mode, with higher charging voltage and current accuracy. The power supply has multiple protections, such as overvoltage, over current, over temperature, short circuit, battery reverse connection and so on. It is an ideal choice for electric vehicle charging pile, electric changing cabinet and some other equipment.

MS-T8000R540-430A1 是一款单路输出的封闭型电池充电充电器，具有体积小，转换效率可高达 **92%**，长寿命直流风扇强制冷却散热方式，可靠性高，电源寿命更长。充电采用 **MCU** 智能检测、通讯和控制方式，充电电压和电流精度更高。电源具有过压，过流，过温度，短路和电池反接等多重保护。是电动车充电桩，换电柜等设备理想的选择。

The document describes the electrical details, mechanical and environmental specifications of the 500W charger (continuous output power).

资料详细描述了一款 500**W(**连续输出功率**)**开关电源的电气性,结构性及环境等要求。

1.1. Description

☐ SMPS Adaptor(Wall mount)/插墙式适配器　☐ SMPS Adaptor(Desk-top)/桌面型适配器
☐ Open Frame/开放式结构　■ SMPS Unit (With Case)/带铁壳型
☐ Others/其他

2. Input characteristics/输入特性

2.1. Input voltage & frequency/输入电压与频率

The range of input voltage is from176Vac to 264Vac single phase。

输入电压范围：从 **176Vac** 到 **264Vac**，单相输入。

	Minimum/最小	Nominal/额定值	Maximum/最大
Input Voltage/输入电压	176 Vac	220Vac	264Vac
Input Frequency/输入频率	47~60HZ		

2.2. Input AC current/AC 输入电流

Input Voltage/输入电压	220Vac	Remark/备注
Input AC Current/AC 输入电流	5A Max	Full load

2.3. Inrush current (cold start)/浪涌电流(冷启动)

The inrush current will not exceed 10A at 220Vac input and Max load for a cold start at 25℃.

在 **220Vac** 输入和 **25**℃冷启动的最大负载下，浪涌电流不超过 **10A**。

2.4. Typical efficiency/典型效率

92% min.@220Vac/50Hz input, 54VDC Output (80% load).

输入电压 **220V/50Hz** 时，输出电压 **54V, 80%**负载时效率不低于 **92%**。

2.5. Energy consumption /功耗

No Load Consumption≤5W (220Vac/50Hz,DC54V).

MOSOIndustrial Park, Nanshan District,
Shenzhen, Guangdong 518108, P. R. China
TEL: 86-755-27657000
27657555P.C:518108
FAX: 86-755-27657908
http://www.mosopower.com

在额定输入 **220Vac/50Hz, DC54V,**空载功耗≤**5W**。

2.6.Standby consumption/待机功耗

Standby consumption≤3W (220Vac/50Hz,output off).

在额定输入 **220Vac/50Hz,** 输出关闭,待机功耗≤**3W**。

2.7. Power factor/功率因素

The PF should not be lower than 0.98 at 220Vac＆full load.

220Vac 满载，功率因素不低于 **0.98**

3. Output characteristics/输出特性

3.1. Static output characteristics <Vo&R+N>/静态输出特性

Output Power	Load Rage /负载范围	Output Range 输出电压范围	R+N 纹波与噪声	Remark 备注
500Watt	0.0A ~9AMAX	+30V~+60VDC	500mVp-p	AC:220V

Ripple & Noise: Measurement is done by 20MHz bandwidth oscilloscope and the output paralleled a 0.1uF ceramic capacitor and a 10uF electrolytic capacitor. (Test under the condition of rated input and rated output).

纹波与噪声：量测时示波器选用 **20MHz** 带宽限制，输出端要并联一颗 **0.1uF** 的陶瓷电容和一颗 **10uF** 的电解电容. **(**在额定输入及输出的条件下检测**)**。

3.2.Line/ load regulation/线性/负载调整率

Output	Load Condition/负载条件		Line Regulation 线性调整率	Load Regulation 负载调整率	Remark 备注
Rate	Min. Load	Max Load			
+54V	0.0A	9A	±1 %	±1%	

3.3.Description of output characteristics /输出特性说明

序号	项目	技术要求/ The technical requirements
1	输出功率/Output power	500Watt
2	输出电压/Output voltage	+30V~+60VDC
3	空载电压/No load Voltage	54V±0.2V
4	电压偏差/ Voltage deviation	±0.2V （@等于设置电压，恒流输出时不要求）
5	电压步进/Voltage step	0.2V/step
6	输出电流/ Output current	9A Max @54V
7	电流偏差/Current deviation	I≥2.5A :+5~-10%; I≤2.5A: ±0.3A
8	电流步进/ Current step	0.2A/step
9	纹波噪声/Ripple and noise	500mVp-p

MOSOIndustrial Park, Nanshan District,
Shenzhen, Guangdong 518108, P. R. China
TEL: 86-755-27657000
27657555P.C:518108
FAX: 86-755-27657908
http://www.mosopower.com

3.4. 负载冲击/ load impact

1.In the case of charger output, the charger should not have the damage that cannot recover after short-circuit protection when a 4700uF capacitor is instantly connected;

在充电器输出的情况下，瞬间接入一个 **4700uF** 的电容时充电器不应出现短路保护不恢复的情况;

2.When the output voltage of the charger is 54V or higher, if the battery is charged, the charger can adjust to the set current in time without short circuit protection.

当充电器输出 **54V** 或高于 **54V** 电压的情况下，如果电池接入充电，充电器能及时调整到设定的电流而不出现短路保护。

3.5. Turn on delay time/开机延迟时间

5S max. @220Vac input & Full load.

输入电压 **220Vac** 满载时，开机延迟时间不超过 **5S**。

3.6. Hold-up time/关机维持时间

10mS min. @ Full load &220Vac/50Hz input.

输入电压 **220Vac/50Hz** 满载时，关机输出保持时间不小于 **10** 毫秒。

3.7. Rise time/上升时间

100mS max. @ rated load, 54VDC output.

额定负载时,直流 **54V** 输出，上升时间不超过 **100** 毫秒。

3.8. Fall time/下降时间

30mS max. @ Full load

满载时,下降时间不超过 **30** 毫秒。

3.9. Output overshoot / undershoot/输出过冲/欠冲

5% max. When the power on or off at full load.

满载开关机时，输出过冲/欠冲均不大于 **5%**。

3.10. Output load transient response/输出负载瞬态响应

Output between ±5% of rated voltage, the load changes from 25% to 50% to 25%, 50% to 75% to 50%. R/S: 0.25A/us. Transient Response Recovery Time: 200us，Dynamic response overshoot ±5%.

输出在额定电压的±**5%**之间,负载变化：从 **25% to 50% to 25%, 50% to 75% to 50%** 斜率: **0.25A/us,** 动态响应恢复时间：**200uS,** 动态响应过冲**±5%**。

4. Protection requirements/保护要求

4.1. Input over voltage protection /输入过压保护

When the input voltage reaches AC 300V, the power supply cannot be damaged.

输入电压达到 **AC300V** 时，电源不能损坏。

4.2. Over current protection/过流保护

Over Current Point Limited/过流点限制: (9.5≤I≤13.5A) Full load(@220Vac,DC54V).

When the load current exceeds the range of output current (9.5≤I≤13.5A) and the time exceeds 3 seconds, the power supply will be shutdown, and should put the over load fault flag to the register. When the upper computer sends the boot instruction or reset instruction,

MOSOIndustrial Park, Nanshan District,
Shenzhen, Guangdong 518108, P. R. China
TEL: 86-755-27657000
27657555P.C:518108
FAX: 86-755-27657908
http://www.mosopower.com

the register fault flag should be reset.

当负载电流超出设定输出电流的范围(9.5≤I≤13.5A)，时间超过 3s 时应自动关断输出， 应在寄存器置过载故障标记，当上位机下发开机指令或复位指令后，应复位寄存器故障标记。

4.3. Short circuit protection/短路保护

When the charger output is short circuited, turn off the output and set the short circuit fault flag in the register. After the short circuit fault is cleared, the register fault flag is cleared automatically and remains in the off state;

当充电器输出短路时，关闭输出并在寄存器中设置短路故障标记。短路故障清除后，寄存器故障标记自动清除,并保持关机状态。

The reset of short-circuit fault state should not through restart the AC, but through the upper computer to issue the boot instruction or automatically detect to cancel. After the cancellation of the fault state, the register short-circuit state mark should be reset.

短路故障状态复位不应该断 AC 重启，而是通过上位机下发开机指令或自动检测撤消，故障状态撤消后应复位寄存器短路状态标记。

4.4. Output over Voltage protection/输出过压保护

When the output voltage of the power supply is greater than 110% of the maximum output voltage (the maximum output voltage set by parameters), close the output and set the over-voltage protection information. When the upper computer issues the boot instruction or reset instruction, should reset the over voltage mark in the register.

大于最高输出电压（通过参数设定的最高输出电压）的 110%，关断输出，进入关机状态，并在寄存器置输出过压标记。当上位机下发开机指令或复位指令后，应复位寄存器过压标记。

4.4. Over temperature protection/过温保护

It has the function of over temperature protection. The temperature protection works according to 55, 60 and 65 gradient derating. When the temperature exceeds 65 ℃ (high current device temperature: 85 ℃), and the time exceeds 3S, the output will be turned off, and the over temperature mark will be set in the register.

具有过温保护功能，温度保护按 55、60、65 梯度降额工作，当温度超过 65℃（大电流器件温度：85℃），时间超过 3s 时关断输出，进入关机状态，并在寄存器置过温标记。

When the temperature is lower than 55 ℃, the register over temperature mark will be automatically cleared and keep in the off state. The start-up instruction or reset instruction shall not change the over temperature mark.

当温度低于 55℃后，自动清除寄存器过温标记，并保持在关机状态，开机指令或复位指令不应改变过温状态标记。

4.5. Output polarity protection/输出极性保护

When the battery reverse connection is detected, the charger output is cut off and the battery reverse connection mark is set in the register. When the upper computer sends the power on instruction or reset instruction, the register battery reverse connection mark should be reset.

当检测到电池反接时，切断充电器输出，并在寄存器置电池反接标记。当上位机下发开机指令或复位指令后，应复位寄存器电池反接标记。

MOSOIndustrial Park, Nanshan District,
Shenzhen, Guangdong 518108, P. R. China
TEL: 86-755-27657000
27657555P.C:518108
FAX: 86-755-27657908
http://www.mosopower.com

4.6. Input under voltage protection /输入欠压保护

When the input voltage is less than 176V, turn off the power output and set the input under voltage mark in the register.

当输入电压低于 **176V** 时，关闭电源输出，并在寄存器内设置输入欠压标记;

When the input voltage returns to the normal range, the under voltage mark of the register will be cleared automatically to keep the power-off state. The start-up instruction or reset instruction shall not change the under voltage status mark.

当输入电压恢复到正常范围后，寄存器的欠压标记自动清除，保持断电状态。开机指令或复位指令不应改变欠压状态标记。

5. 485 Communication protocol/485 通讯协议

This module supports MODBUS-RTU protocol, serial port baud rate 9600, data bit 8, stop bit 1; fixed address: 101; protocol content refers to "lithium battery intelligent charger 500W serial communication protocol v2.0".

本模块支持 **MODBUS -RTU** 协议,串口波特率 **9600**,数据位 **8** 位,停止位 **1** 位; 固定地址：**101**;协议内容参考《锂电池智能充电器 **500W** 串行通信协议 **V2.0**》。

5.1. 通讯电路设计/ Communication circuit design

Completely electrically isolated 485 communicate.

采用完全电气隔离 **485** 通讯。

5.2. Features/功能特性

1) ESD Protection >15KV/ESD 保护 > 15KV

2) IEC 61000-3-2; Level 4(ESD)

3) Isolation voltages :AC 1500Vrms/隔离电压 AC 1500Vrms

4) High common-mode transient immunity: 4 kV/μs

5) Data rate 150Kbps Max/最大支持 150Kbps 速率通讯

6. The cooling way/ 散热方式

Fan forced cooling mode (fan size 4020, 15000 rpm ± 10%, 70000 hours, two balls)

风扇强制散热（风扇规格 **4020**， **15000RPM** ±**10%**， **70000Hours**，双滚珠）

7. Environment requirements/环境要求

7.1. Operating Temperature and Relative Humidity 操作温/湿度要求

Temperature is from -25℃ to +65℃, humidity is from 0%RH to 95%RH. After over temperature protection, the temperature returned to - 20 ℃ to + 55 ℃, recover to normal.

温度**-25**℃到**+65**℃，湿度 **0%RH** 到 **95%RH**。过温保护后温度恢复为**-20**℃到**+55**℃恢复正常。

环境温（℃）	< -25	-19 ～-10	-9 ～ +54	+55 ～+59	+60 ～+65	>65
输出电流(A)	0 保护	6.3 Max	9.0 Max	6.3 Max	4.3 Max	0 保护

7.2. Storage remperature and relative humidity/存储温/湿度要求

Storage temperature is from -40℃ to +85℃, humidity is from 0%RH to 95%RH, non-

MOSOIndustrial Park, Nanshan District,
Shenzhen, Guangdong 518108, P. R. China
TEL: 86-755-27657000
27657555P.C:518108
FAX: 86-755-27657908
http://www.mosopower.com

condensing.

温度-40℃ to +85℃，湿度 0%RH to 95%RH。不结露。

7.3. Shell operating temperature/外壳工作温度

At room temperature of 25℃, when the power supply works normally, the shell temperature is ≤50℃.

在 25℃室温环境下，电源正常工作时外壳温度≤50℃.

7.4. Sea level ≤2,000 meters/海拔≤2,000 米

7.5. Vibration/振动

Frequency 频率: 10~200Hz

Acceleration 加速度: 29.4m/s2（3G）

Amplitude 振幅: 0.35mm

Speed rate 速率: 1OCT/min

Time 时间: 2h/direction

Direction 方向: X、Y、Z

7.6. Impact/冲击

According to the GB/T 2423T-55 2006 Ehc test, the charger is subjected to 3 impacts with 1J energy on 6 sides.

按 GB/T 2423T-55 2006 Ehc 试验在充电器 6 个面用 1J 的能量冲击 3 次。

7.7. Drop/跌落

The charger drops freely from a height of 0.3m, 1 time on each side of 6 sides, 6 times per cycle of 3 cycles, a total of 18 times. Check the function once per cycle.

充电器从 0.3m 高度向下自由跌落，6 个面，每个面跌落 1 次，每周期 6 次，3 个周期，共 18 次。每个周期检查一次功能。

8. Reliability Requirements/可靠性要求

8.1. Burn-in/煲机

The power supply shall be burn-in for 2 hours under normal input and 80% rated load at 40℃±5℃, 93% RH.

产品至少要在 40℃±5℃，湿度 93%的环境及额定输入，80%额定负载条件下煲机 2 小时。

8.2. Mean time between failures/平均无故障时间

Under rated supply and load conditions, the mean time between failures (MTBF) of the charger shall not be less than 200000 hours, and the expected service life shall not be less than 5 years.

充电器在额定供应和负载条件下，其平均无故障时间应不低于 200，000 小时 ，预期使用寿命不低于 5 年。

8.3. Protection Grade/防护等级:IP2X

8.4. Three Preventions/三防

All parts and PCB in the charger shall be sprayed with three anti-paint.

充电器内所有的零部件和 PCB 须喷涂三防漆。

MOSOIndustrial Park, Nanshan District,
Shenzhen, Guangdong 518108, P. R. China
TEL: 86-755-27657000
27657555P.C:518108
FAX: 86-755-27657908
http://www.mosopower.com

8.5. E-caps lifetime/电容寿命

The E-caps used in this charger must be with lifetime of 5 years @ 50℃ @ 80% load @ 220Vac/50Hz input.

在 **50** 度环境下，**80%** 负载，在 **220Vac/50Hz** 输入电压，充电器中使用的电解电容寿命至少达 **5** 年。

9. EMI/EMS Standards/EMI/EMS 标准

9.1. EMI Standards/EMI 标准

EN55032/EN55035 CLASS A GB9254-2008 GB17625.1

9.2. EMS Standards/EMS 标准

9-2-1 GB/T 17618-2015,electrostatic discharge(ESD) requirement/静电抗扰度要求

Discharge characteristic/静电规格	Test level/测试条件	Test criteria/测试标准
Air discharge/空气放电	+/-8KV	B
Contact discharge/接触放电	+/-4KV	B

9-2-2 EN 61000-4-3,radiated electromagnetic field susceptibility(rs)/辐射骚扰场强

Test level/测试条件	Test criteria/测试标准
10V/m (r.m.s)	A
30-1000MHz,80%AM(1KHz) sine-wave	

9-2-3 EN 61000-4-4,electric fast transients(burst) immunity requirement/电快速瞬变脉冲群

Coupling/测试端口	Test level/测试条件	Test criteria/测试标准
AC-input/交流输入	0.5KV	B
AC-input/交流输入	1KV	B

9-2-4 EN 61000-4-5,surge capability requirement/浪涌抗扰度要求

Surge voltage/雷击电压	Test criteria/测试标准
Common mode/共模 +/-4KV	B
Differential mode/差模 +/-2KV	

9-2-5 EN 61000-4-6, Induced radio frequency fields conducted disturbances immunity requirement/电源端子传导骚扰实验

Test level/测试条件	Test criteria/测试标准
3V	B
0.15-30 MHz,80%AM(1KHz)	

9-2-6 EN 61000-3-2, Harmonic current/谐波电流

Test level/测试条件	Test criteria/测试标准
AC-input/交流输入 **220V**	**B**
DC-output/直流输出 **FULL LOAD**	

9-2-7 EN 61000-3-3, Voltage fluctuation and flicker/电压波动和闪烁

Test level/测试条件	Test criteria/测试标准

MOSOIndustrial Park, Nanshan District,
Shenzhen, Guangdong 518108, P. R. China
TEL: 86-755-27657000
27657555P.C:518108
FAX: 86-755-27657908
http://www.mosopower.com

AC-input/交流输入 **220V**	**B**
DC-output/直流输出 **FULL LOAD**	

9-2-8 Assessment criteria /评估标准

Acceptance criteria 可接受标准	Performance 性能
A	The performance is not allowed to change; if the performance will change, the range of change is within the scope specified in the product specification. 性能不允许变化；如果性能会发生变化，则变化的范围在产品规格书规定的范围内.
B	During the test, the performance degradation of the equipment is allowed to be within the scope of the product specification. After the dryness is eliminated, the equipment can return to normal without reset or any manual intervention. 设备在测试过程中,性能降低允许在产品规格书要求范围内,干拢消除后,设备能恢复正常,不允许出现复位和任何方式的人工干预.
C	During the test, the equipment is allowed to have interruption, and after the test, it is allowed to recover by itself or manual intervention (including hardware intervention); during the test, only the primary protection device is allowed to be damaged, and after the damaged primary protection device is replaced, the equipment can return to normal. 在测试过程中，设备允许出现业务中断，测试完毕后允许自行恢复或者人工干预恢复（包括硬件上干预）；测试中只允许初级防护器件损坏，并且更换损坏的初级防护器件后，设备能恢复正常。

10. Safety Standards 安规标准

10.1. Dielectric Strength(Hi-pot) 耐压强度(高压)

I/P-O/P: 3KVac/5mA max. / 60 seconds. ARC 6

输入对输出:**3KVac / 5mA max. / 60** 秒。ARC 6

I/P-FG: 1.5KVac/5mA max. / 60 seconds.

输入对地:**1.5KVac / 5mA max. /60** 秒。

O/P-FG: 0.5KVac/10mA max / 60 seconds.

输出对地:**0.5Vac / 10mA max. /60** 秒。

10.2. Leakage Current/漏电流

0.75mA max at 264Vac / 50Hz.

输入 **264VAC**,漏电流小于 **0.75mA**。

MOSOIndustrial Park, Nanshan District,
Shenzhen, Guangdong 518108, P. R. China
TEL: 86-755-27657000
27657555P.C:518108
FAX: 86-755-27657908
http://www.mosopower.com

10.3.Insulation Resistance/绝缘阻抗

Add 500Vdc voltage at primary to secondary to test, the insulation impedance is 100MΩ. min. (12 power supplies in parallel, insulation impedance should not be less than 20MΩ)

在初级与次级间加 **500Vdc** 进行测试，绝缘阻抗最小 **100MΩ. (12** 个电源并联，要求绝缘阻抗不小于 **20MΩ)**

10.4.Grounding impedance test /接地阻抗测试

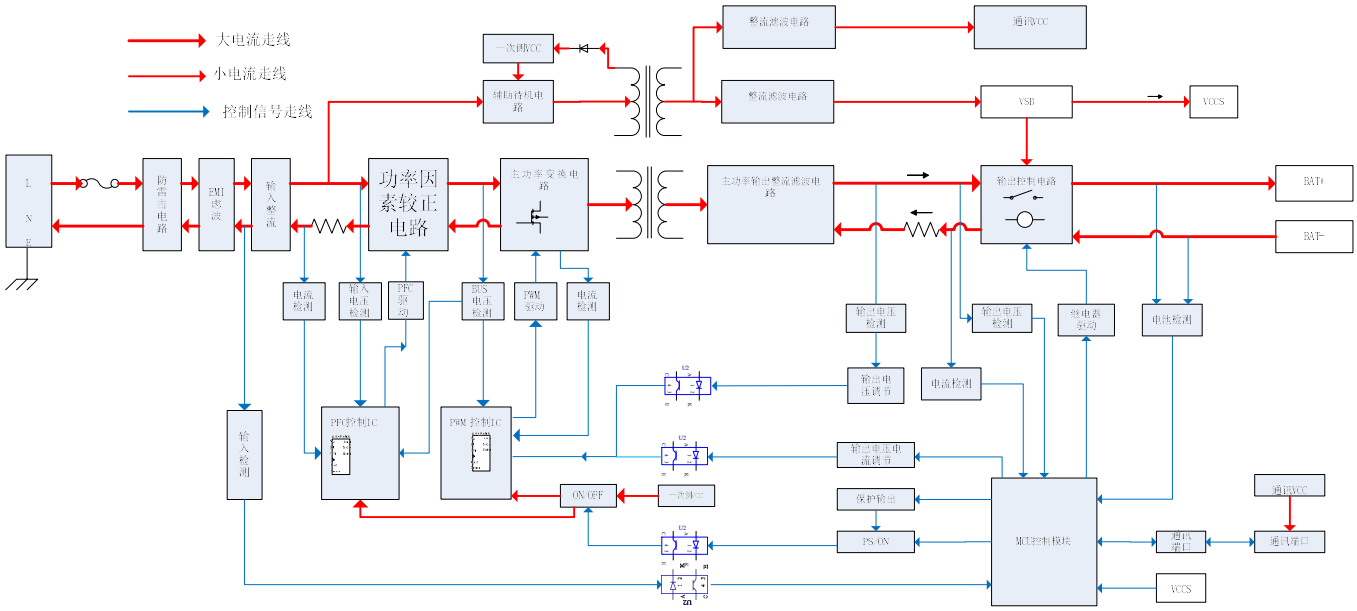
Grounding Resistance：<0.10Ω at 12VDC/32A/1S.

接地电阻：12VDC/32A/1S 时<0.10Ω。

10.5.Safety Standards 安规标准

Safety Type/安规	Country/国家	Standard/标准	State/状况	Remark 备注
CQC	CHINA	GB4943.1-2011 GB9254-2008 GB/T36944-2018 GB/T2947.3-2008	APPROVAL	

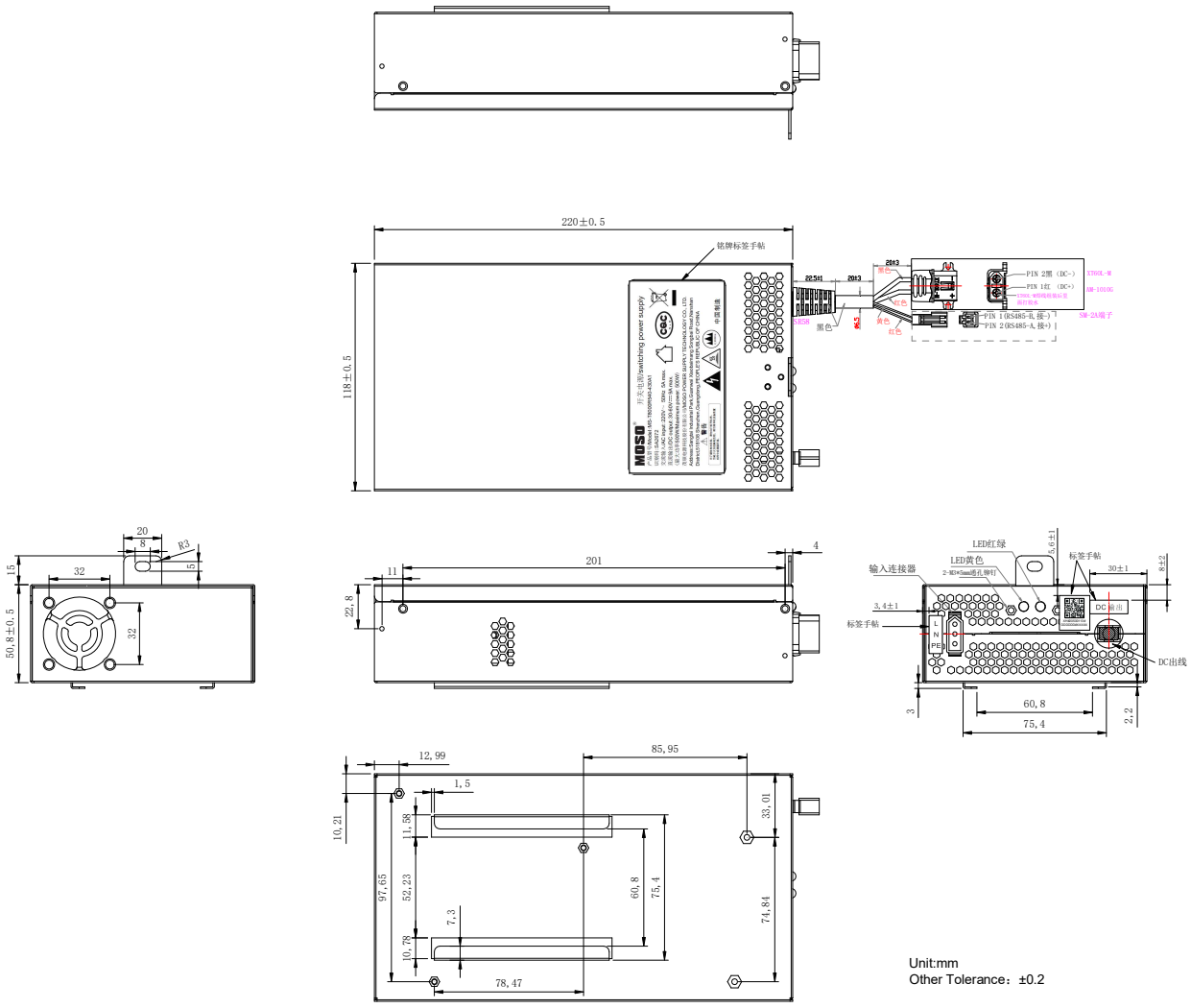
11. Schematic diagram of circuit/电路原理框图



MOSOIndustrial Park, Nanshan District,
Shenzhen, Guangdong 518108, P. R. China
TEL: 86-755-27657000
27657555P.C:518108
FAX: 86-755-27657908
http://www.mosopower.com

12. Appearance mechanism diagram /外观示意图

12.1. 220*118*50.8mm (L*W*H)

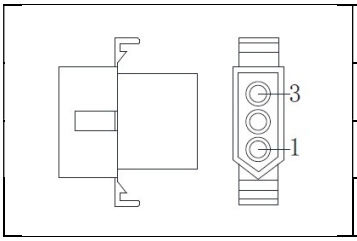


Unit:mm
Other Tolerance：±0.2

MOSOIndustrial Park, Nanshan District,
Shenzhen, Guangdong 518108, P. R. China
TEL: 86-755-27657000
27657555P.C:518108
FAX: 86-755-27657908
http://www.mosopower.com

12.2.Description of connector/接口说明

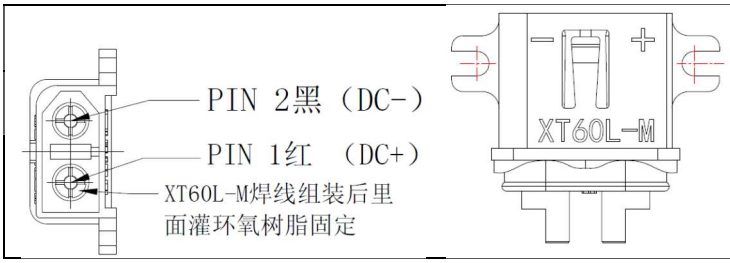
12.2.1 AC Input Connector/交流输入端口



端子号	连接定义
1	L（火线）
2	N（零线）
3	PE(安全接地)

P 架(VM16):03-09-2031 1*3PIN PITCH=5.03MM MOLEX
端子(VM16):02-09-2101 连续 黄铜 镀锡 MOLEX

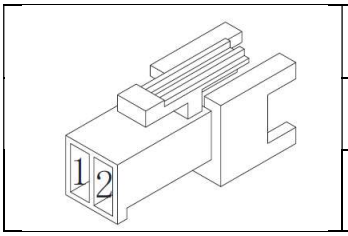
12.2.2 DC Output Connector /DC 输出端口



端子号	连接定义
1	DC+输出
2	DC-输出

端子：XT60L-M 艾迈斯
壳体：AM-1010G 艾迈斯
胶水型号与规格：8811A-1233,工作温度 160-200℃.

12.2.3 Communication Connector/通讯端口

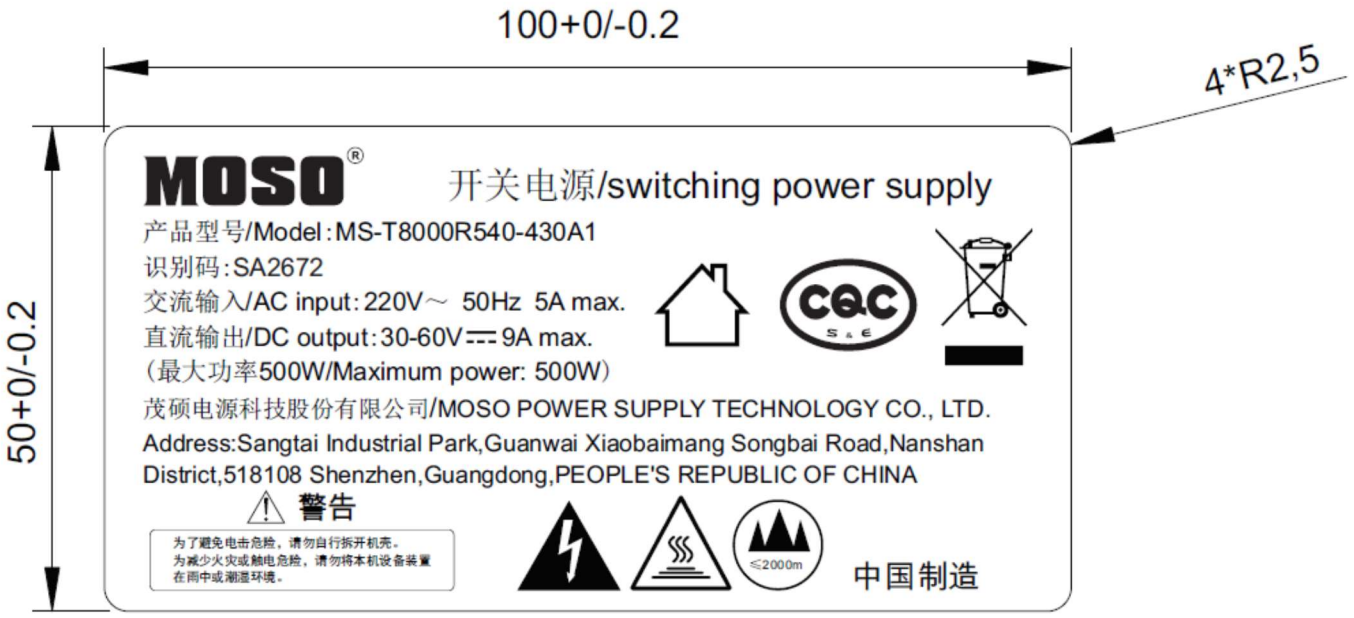


端子号	连接定义
1	RS458B
2	RS458A

P 架(VL57):C2501-H02 1*2PIN PITCH:2.5mm 联和
端子(VL57):C2501-TP2 横式连续 磷铜镀锡 联和

MOSOIndustrial Park, Nanshan District,
Shenzhen, Guangdong 518108, P. R. China
TEL: 86-755-27657000
27657555P.C:518108
FAX: 86-755-27657908
http://www.mosopower.com

13. Nameplate Drawing/铭牌示意图



备注:
1.材质:100#消银龙+光膜
2.颜色:银底黑字
3.符合REACH,ROHS 与MOSO环保要求
4.The size of garbage bin is no less than 7mm
5.The size of " 回" mark is no less than5mm.
背胶耐温90℃,96h内不翘角,不脱落,不起泡.
酒精擦拭和清水各擦15秒,用100克的砝码包棉布擦，
字体清晰可见，无其他不良(如卷边、翘角等)