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

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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： F30-TA000J750-750A0

PRODUCT NO./产品编号： SCXXX-UT0

SAMPLE DATE/送样日期： 2023-03-02

CUSTOMER AUTHORIZED SIGNATURE/客户承认签核		

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

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拟　制：	项目工程师：	安规工程师：	批　准：

MOSO® 茂硕电源
股票代码：002660

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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）	---	2023-03-02	

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1. SCOPE/范围

The document describes the electrical details, mechanical and environmental specifications of the 750W charger (continuous output power).

资料详细描述了一款 750**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 from90Vac to 264Vac single phase。

输入电压范围：从 **90Vac** 到 **264Vac**，单相输入。

	Minimum/最小	Nominal/额定值	Maximum/最大
Input Voltage/输入电压	90 Vac	115V/220Vac	264Vac
Input Frequency/输入频率	63Hz	60Hz/50Hz	47Hz

2.2.Input AC current/AC 输入电流

Input Voltage/输入电压	100-240Vac	Remark/备注
Input AC Current/AC 输入电流	10A Max	Full load

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

The inrush current will not exceed 60A at 220Vac input and Max lad 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 **60A**。

2.4.Typical efficiency/典型效率

92% min.@220Vac/50Hz input,73VDC Output (80% load).& 89% min.@115Vac/60Hz input,73VDC Output (80% load).

输入电压 **220V/50Hz** 时，输出电压 **73V, 80%**负载时效率不低于 **92%**。入电压 **115V/60Hz** 时，输出电压 **73V, 80%**负载时效率不低于 **89%**。

2.5.Energy consumption /功耗

No Load Consumption≤5W (220Vac/50Hz and 115Vac/60Hz,DC75V).

在额定输入 **220Vac/50Hz** 和 **115Vac/50Hz, DC75V,**空载功耗≤**5W**。

2.6.Standby consumption/待机功耗

Standby consumption≤3W (220Vac/50Hz and 115Vac/60Hz,output off).

输入 **220Vac/50Hz** 和 **115Vac/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 and 115Vac & full load.

220Vac 和 **115Va** 满载，功率因素不低于 **0.98.**

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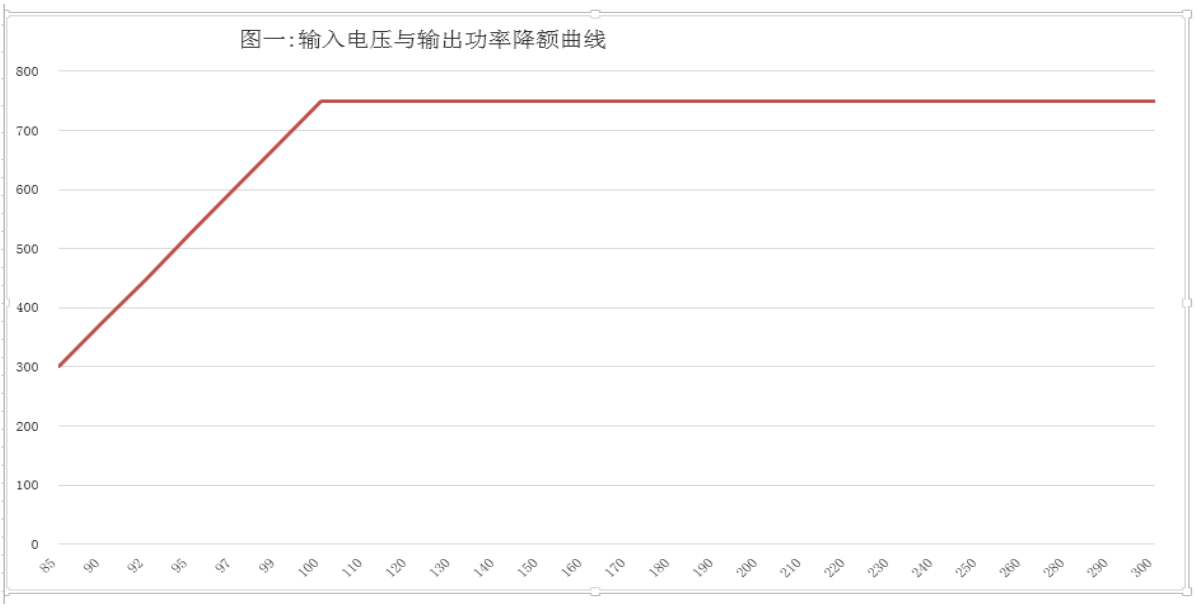
2.8. Input voltage and power derating curve 输入电压与功率降额曲线



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 (@DC54V,9A) 纹波与噪声	Remark 备注
750Watt	0.0A ~12AMAX	+40V~+75V DC	600mVp-p	

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).

Remark: The output voltage is 40-62V, and the maximum output current is 12A.

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 10 的电解电容.(在额定输入及输出的条件下检测)。

注意：输出电压为 40 ー 62V.输出电流最大为 12A.

3.2.Line/ load regulation/线性/负载调整率(75V)

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	Max Load			
+75V	0.0A	12A	**750W**	±**1 %**	±**1%**	

Remark: The output voltage is 40-75V, and the maximum output current is 12A.

注意：输出电压为 40 ー 75V.输出电流最大为 12A.

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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	750Watt
2	输出电压/Output voltage	+40V~+75VDC
3	空载电压/No load Voltage	75V±0.5V
4	电压偏差/ Voltage deviation	±5% （恒压输出，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	12A Max ,75V Max , 输出功率 750W
7	电流偏差/Current deviation	I≥2.5A :+5~-10%; I≤2.5A: ±0.5A
8	电流步进/ Current step	0.2A/step
9	纹波噪声/Ripple and noise	600mVp-p

3.4.load impact/负载冲击

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 75V 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 **75V** 或高于 **75V** 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 and 115Vac input & Full load.
输入电压 **220Vac** 和 **115V**ac 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 and 115Vac input.
输入电压 **220Vac/50Hz** 和 **115V**ac 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, 75VDC output.
额定负载时,直流 **75V** 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。

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

10% 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 **10%**。

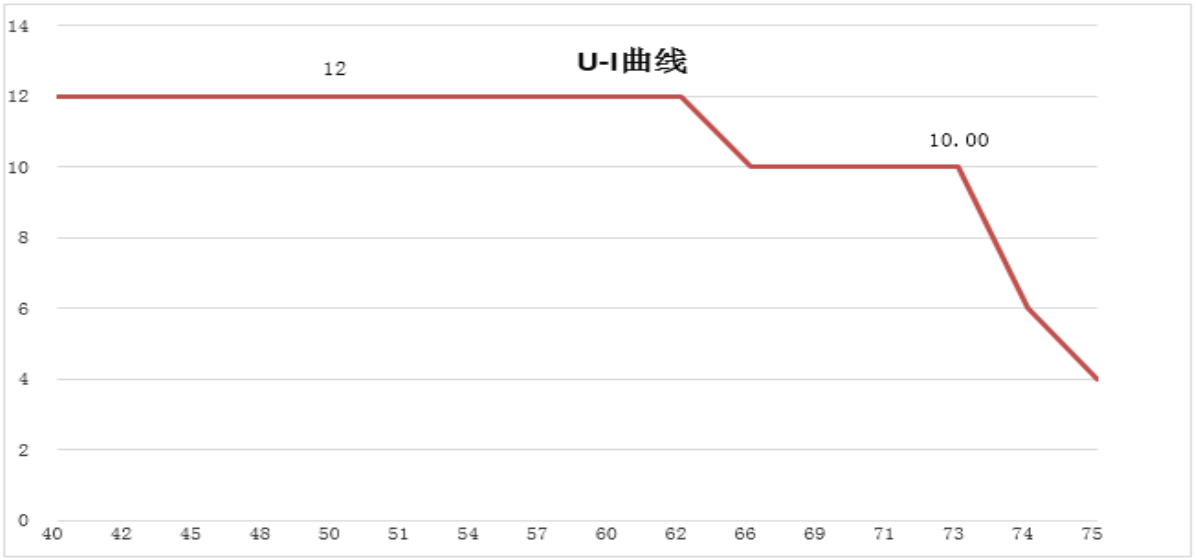
3.10.Output load transient response/输出负载瞬态响应

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%**。

3.11.Output voltage and output current curve 输出电压与输出电流曲线

图二:输出电压与输出电流U-I 曲线



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: (10.5≤I≤14.5A) Full load(@220Vac,DC75V). 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, the register fault flag should be reset.

当负载电流超出设定输出电流的范围**(10.5≤I≤14.5A)**，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。

Note: During the test, the overcurrent protection point software is set to (9.6-10.5A).

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(@220Vac,DC75V).

备注:测试时过流保护点软件设置为(9.6-10.5A) (@220Vac,DC75V).

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。

4.5.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。

4.6.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。

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

When the input voltage is less than 90V, turn off the power output and set the input under voltage mark in the register.

当输入电压低于 **90V** 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. CAN Communication protocol/CAN 通讯协议

This module supports CAN-standard protocol, communication baud rate 125K, default device ID: AF; Please refer Tram charging agreement.

本模块支持 **CAN-**标准协议,通信波特率 **125K,**默认设备 **ID**：**AF;**协议内容参考电车充电协议。

5.1.Communication circuit design/通讯电路设计

Completely electrically isolated CAN communicate.

采用完全电气隔离 **CAN** 通讯

5.2.Features/功能特性

1) ESD Protection >8KV/ESD 保护 >8KV

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.

风扇强制散热

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 +40℃, humidity is from 0%RH to 95%RH. After over temperature protection, the temperature returned to - 20 ℃ to + 40 ℃, 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**-10**℃到**+40**℃恢复正常。

环境（℃）	< -25	-25～-10	-10 ～+40	+41 ～+59	+60 ～+65	>65
输出电流（A	0保护	8.4 Max	10 Max	8.4Max	5 Max	0 保护

Remark: Take the example that the output current of overtemperature derating is 10A.

注意：**过温降额输出电流是 10A 为例说明**

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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-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。

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 3years.

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 50，000 小时 ，预期使用寿命不低于 3 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。

8.5.E-caps lifetime/电容寿命

The E-caps used in this charger must be with lifetime of 3 years @ 50℃ @ 80% load @ 220Vac/50Hz input.

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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 **3** 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 +/-6KV	B
Differential mode/差模 +/-4KV	

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

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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,干扰消除后,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。

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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 5

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

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

3.5mA max at 264Vac / 50Hz.

输入 **264VAC,**漏电流小于 **3.5mA**。

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	MEET	

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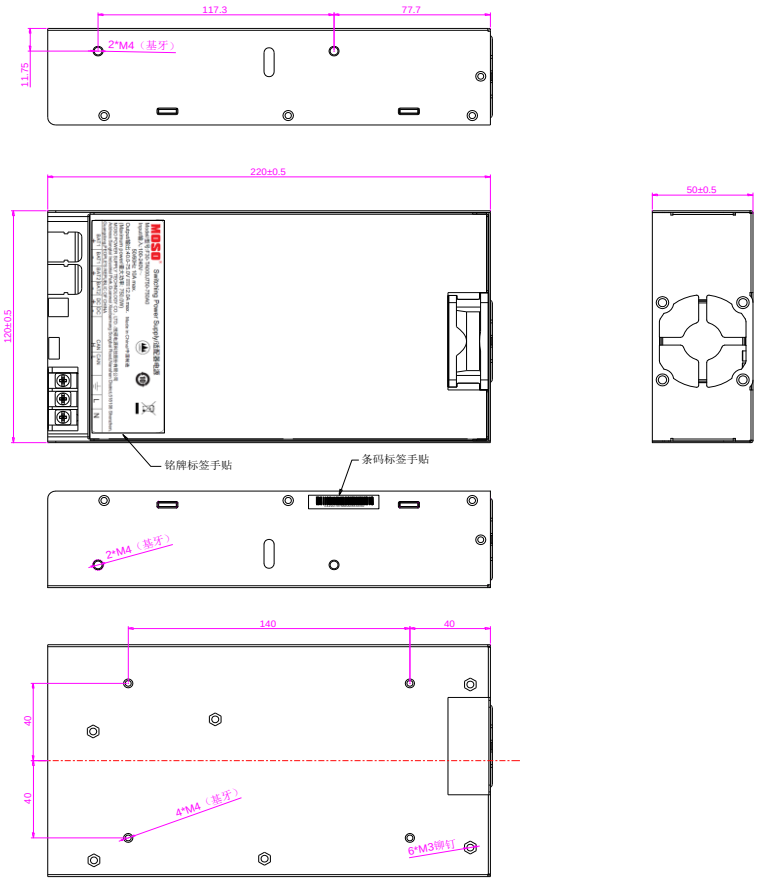
11. Appearance mechanism diagram /外观示意图

11.1.220*120*50mm (L*W*H)



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11.2.Description of connector/接口说明

11.2.1 AC Input Connector/交流输入端口（CN1）

端子号	连接定义
1	PE(安全接地)
2	L（火线）
3	N（零线）

栏式接线端子-带透明翻盖;3P.HB9500SS-9.5;30*16.1*16.7mm;300V/25A

11.2.2　BAT Output Connector /DC 输出端口(CN5,CN3)

1　　2

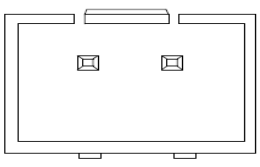
3　　4

1	BAT1 输出+
2	BAT1 输出-
3	BAT2 输出+
4	BAT2 输出-

端子 XT60PW-M 脚距 7.2mm. 2P 黄色 耐压 500VDC 电流 35A

11.2.3　Communication Connector/通讯端口

11.2.3.1.CAN 通讯输入(CN2)



1　2

端子号	连接定义
1	CAN_H
2	CAN_L

2PIN,PIN距2.54mm，**A2504-2AW(HA2.5-2P弯针带扣)**米白

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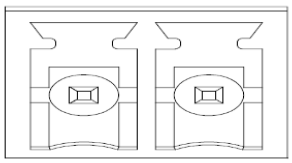
11.2.4. .DC 反向备电输出　(CON6)



端子号	连接定义
1	DC+
2	DC-

2PIN,PIN距3.5mm, 15EDGRC-2P-3.5弯针;绿色

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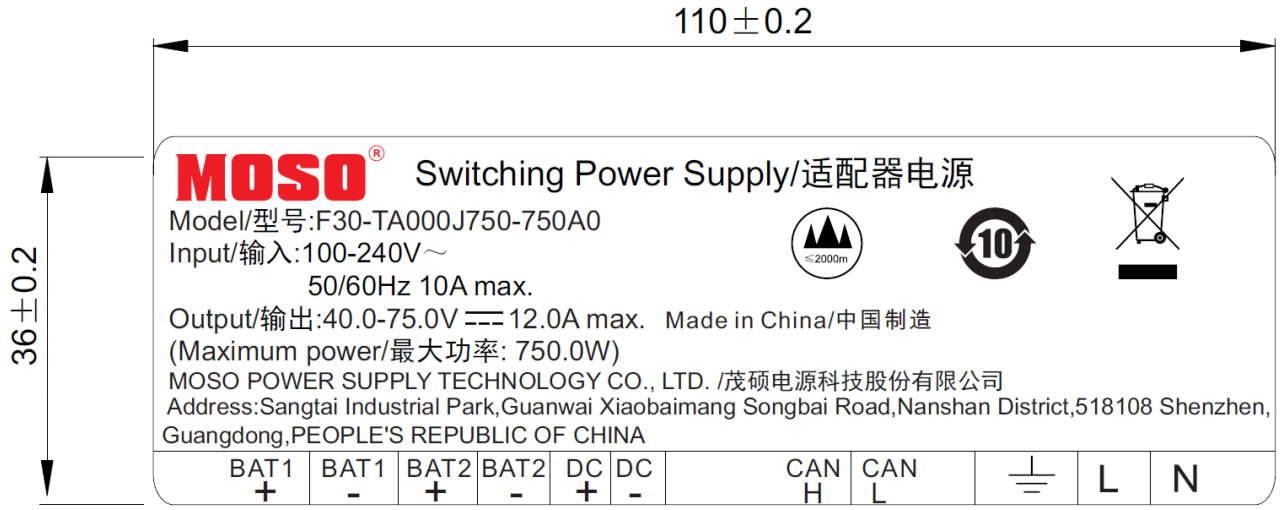
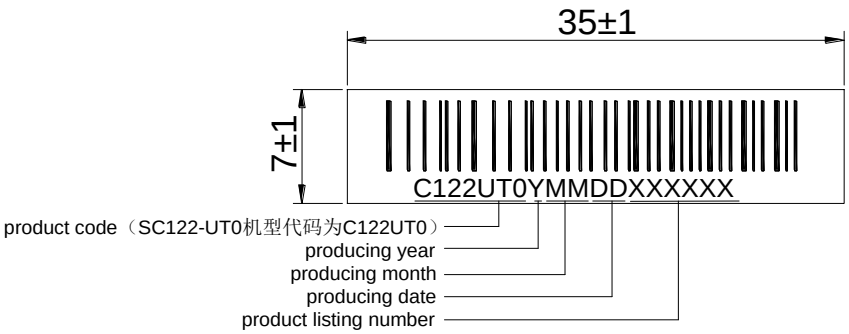
12. Nameplate Drawing/铭牌示意图



备注:
1.100#消银龙+雾膜,银底黑字(logo红色);
2.CE高度不小于5mm.
3.垃圾桶标识尺寸高度不小于7mm
4.REACH,ROHS and conform to MOSO environmental Protection Request
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)



备注:
1.材质:50#PET
2.白底黑字(公司内部打印)
3.条码类型:CODE 128
4.共用料号:3230100432

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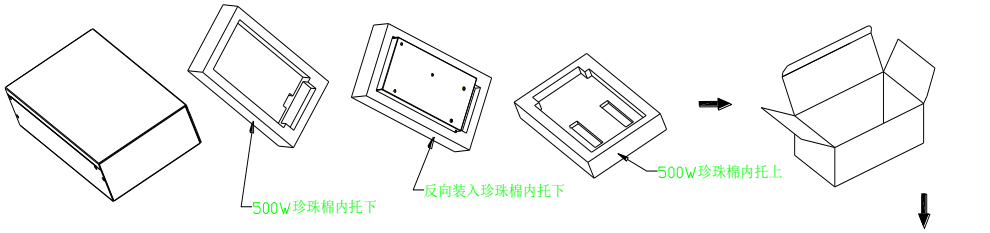
13. Package Drawing/包装示意图



包装说明：

一、将每个产品直接反向装入珍珠棉内托下，再盖上珍珠棉内托上，装入黄盒中，每层装5PCS，共装2层，每箱装10PCS

即：5pcs/层*2层=10PCS/箱

1PCS≈1.2kg

二、包装材料使用说明为：

1、珍珠棉内托289*162*35上：各10 PCS

2、珍珠棉内托289*162*60下：各10 PCS

3、黄盒298*170*115：各10PCS

3、平板575*295MM：3 PCS

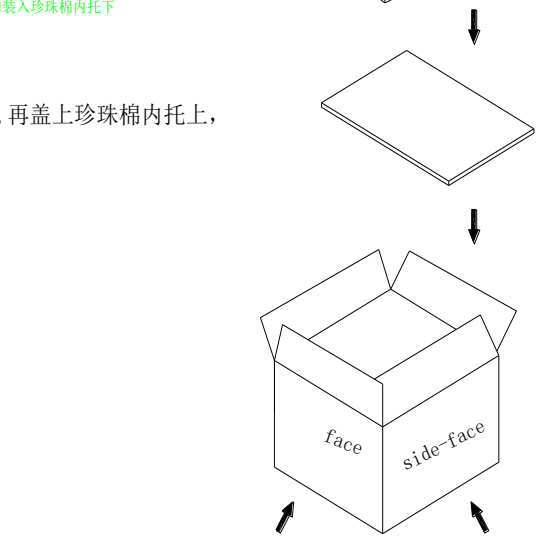
4、纸箱L590*W313*H370MM：1 PCS

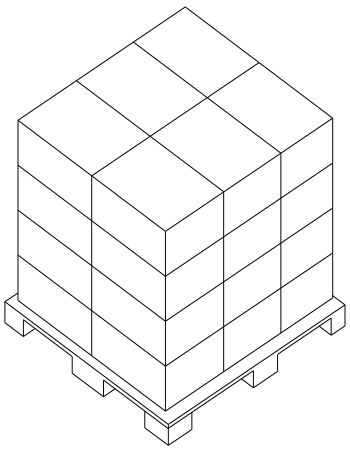
三、栈板堆放说明为：

1、栈板尺寸为：L1200*W950*H135mm

2、每层放2行*3列=6箱

3、坚直堆放4层*6箱共24箱





栈板堆放示意图

封箱示意图

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14. Installation instructions/安装说明

14.1. Installation requirements/安装要求

①底面安装：图 1 显示了电源组装到金属安装表面上的安装孔位置。电源应使用深入外壳内部最大 3mm 长的 M4 螺钉安装。

②侧面安装：图 2 显示了组装到金属安装表面的侧面安装孔位置。电源应使用深入外壳内部最大长度为 4mm 的 M4 螺钉安装。

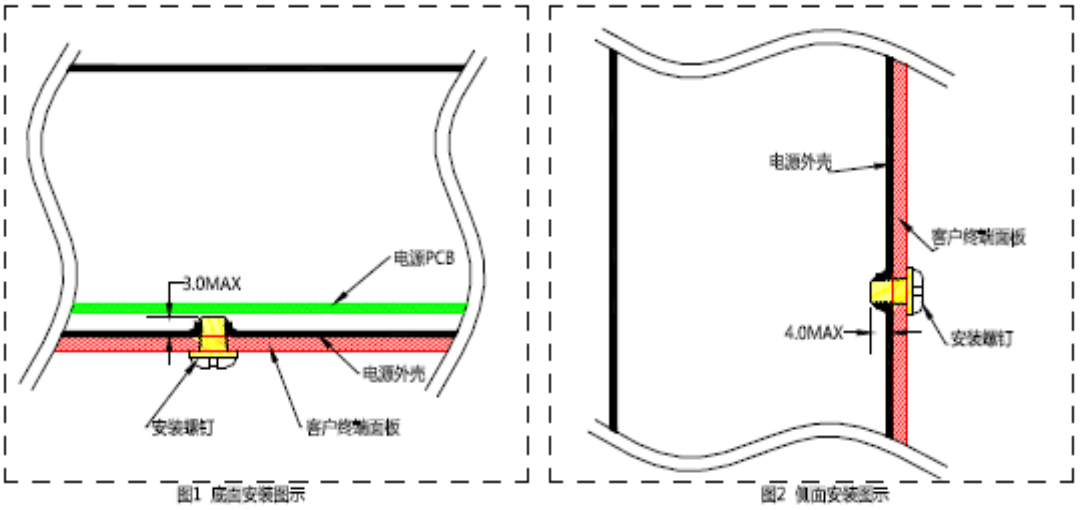

图 1：只能使用 M4 螺钉≤3mm 穿过电源外壳侧面的安装孔。这是为了保证内部组件与外部组件的抵抗力。

图 2：只能使用 M4 螺钉≤4mm 穿过电源外壳底面的安装孔。这是为了保持螺钉和内部组件之间的安全距离。

14.2. Safety regulations/安全守则

- 必须在开启前选择正确的交流输入电压。
- 如果用户的安装方向不符合建议的安装方向，请咨询我们以获得进一步的信息。
- 建议不要将设备放在低导热的表面上，如：塑料。
- 根据环境温度和电源负载，设备外壳可能会变得很热，请勿在设备运行时或电源关闭后立即对设备进行触摸。有烫伤的危险。
- 供电时请勿触摸端子。有触电危险。
- 在安装过程中，防止任何外来金属、颗粒或导体通过开口进入设备。可能会导致触电，安全隐患，火灾或产品故障。

※警告：连接设备时，请在连接L和N之前保护接地连接。断开设备连接时，请先卸下L和N连接，然后在拔下接地连接。电源必须通过金属螺钉安装在接地的金属表面。强烈建议将接地连接器连接到接地金属表面。

安装前或进行维护作业时，请先断开电源与应用系统的连接！

请将安装螺丝与电源的内部元件保持足够的安全距离；

风扇或通风孔不能有东西阻挡，如果附件有其他热源，则至少应该与其保持10-15m 距离；

非标准安装方向或者在高温环境下工作的电源会导致电源内部元件的温度升高，应该减载使用。