

SPECIFICATION OF APPROVAL

CUSTOMER CODE	_____
PRODUCT NAME	<i>Lead-ACID Type Battery Charger</i>
CUSTOMER PRODUCT No.	_____
MODEL No.	_____
DESIGN No.	_____
DATE	_____
EDITION	<i>V.1.0</i>

CUSTOMER CONFIRM

<i>Approved by</i>	<i>Checked by</i>	
<i>Please signed here when you confirmed</i>		

Approved by:

Checked by:

Prepared:

PRODUCT NAME: 铅酸电池充电器 *Lead-ACID Type Battery Charger*

1. Input : **100-240** VAC , frequency **50/60** Hz , Input current **2.2A** Max

2. Charger Characteristics:

• A tiny stream current: **250~500mA** , Battery voltage **12VDC*n** ($n=0.5;1;2;3;4$) 定电压测试 **1.8** (**1.6~2.0**) A

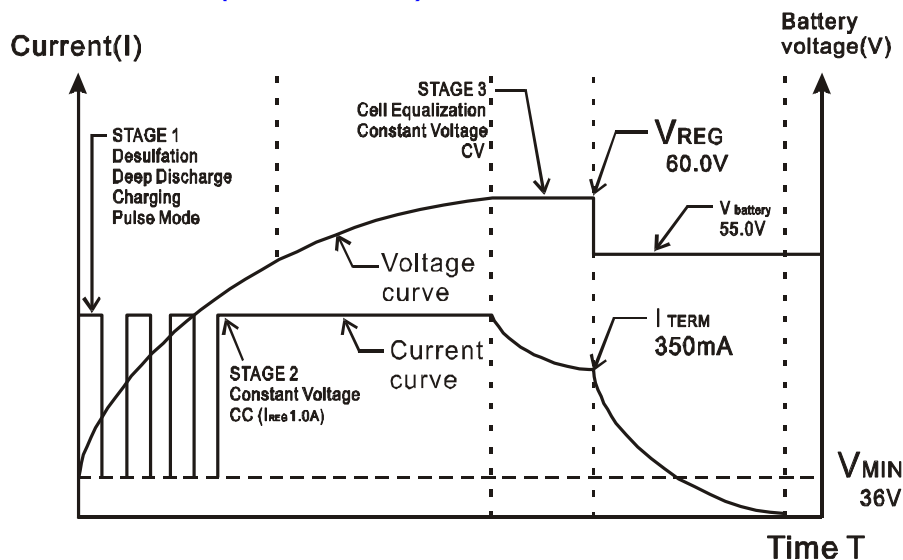
• Transform Voltage(Vmax): **14.5~15 V*n**($n=0.5;1;2;3;4$)

额定充电电流: $I_0=0.1\sim 0.3C$ (C-电池容量 AH 或 MAH)

转灯电流: $I_{TERM}=0.015\sim 0.05C$

额定电压: $12 * n$ ($n=0.5;1;2;3;4$) 最高电压: $14.8V * n$ ($n=0.5;1;2;3;4$)

待机 (满充) 电压: $13.8V * n$ ($n=0.5;1;2;3;4$)



• Caution:

the battery charger stop charging When battery over discharging below $9V * n$ ($n=0.5;1;2;3;4$) .

Efficiency : **80 %** MIN

• Hi-pot Test (Primary to Secondary) : **1500VAC/ 10mA/1 minute**

• Drop test : : At **1M**.After test, unit is not broken, disassembled, or damaged to access hazardous parts.

• MTBF: **10000h**(Burn-In: At **80-100%** load and **35 °C** burn-in room, input voltage **100-240 V**, **4-8 h**)

3. Protection:

• over current protection **4.0 A max**

• short-circuit protection at **1 minute**

4. Mechanical Characteristics:

• Case: Dimension **0*0*0 mm** , Material is **PC+ABS**

• Input Plug: **18AWG*2C SPT- 2 105°C UL 2PIN BLADE / 1200 ± 100 mm** (FYI)

• Output Cord: **H03VV-F 3G0.75mm² / 1500 ± 100mm 4Pin DC Plug** (FYI)

• Label: by customer

5. Environmental:

• Temperature: **0 to +40 °C** , RH range: **5** to **90%**

6. LVD & EMC Approval:

■UL/Cul ■PSE ■CE ■GS □CB □BS ■SAA □C-Tick □CCC □EK-Mark ■EMC ■FCC
■CEC

Part name/产品名: Battery Charger/ 开关电源充电器			Model No./ 型号:			
Design No./设计编号:			Customer Code / 客户代码:			
Customer Product No./ 客户产品编号:			Date/日期 :			
Test Report/测试报告						
Test condition 测试条件	Test Item 测试项目	Unit 单位	Standard Spec 规格标准	Test Spec/Sample No. 测试数据/样品序号		Judge 判定
				1	2	Pass/ Fail
120VAC 60Hz	Primary no load current/初级无负载电流	mA	50 Max	22	22	Pass
	Primary load current/初级负载电流	mA	2200 Max	1680	1740	Pass
	Input power(No load) /初级功率 (无负载)	W	1.0 Max	0.1	0.1	Pass
	Input power(Full load)/ 初级功率 (满载)	W	110 Max	100.8	99.4	Pass
	Input power(Short circuit)/初级功率(次级短路)	W	12 Max	7.5	8.2	Pass
	No load voltage/空载电压	V	0	0	0	Pass
	CV-load /负载电流 (定电压 12V*n(n=0.5;1;2;3;4))	A	1.8±0.2			Pass
	Transform Voltage /转换电压	V	14.5~15.0*n(n=0.5;1;2;3;4)			Pass
	A Tiny Stream Current/涓流转换电流	mA	250~500			Pass
	Over Current Protection /过载保护	A	4.0 Max	2.3	2.3	Pass
Efficiency/效率	%	80Min	87.6	87.4	Pass	
240VAC 60Hz	Primary no load current/初级无负载电流	mA	50 Max	23	21	Pass
	Primary load current/初级负载电流	mA	1500 Max	690	718	Pass
	Input power(No load) /初级功率 (无负载)	W	1.0 Max	0.16	0.13	Pass
	Input power(Full load)/ 初级功率 (满载)	W	110 Max	96.5	95.7	Pass
	Input power(Short circuit)/初级功率(次级短路)	W	20 Max	14.0	13.9	Pass
	No load voltage/空载电压	V	0	0	0	Pass
	CV-load /负载电流 (定电压 12V*n(n=0.5;1;2;3;4))	A	1.8±0.2	1.83	1.81	Pass
	Transform Voltage/转换电压	V	14.5~15.0*n(n=0.5;1;2;3;4)			Pass
	A Tiny Stream Current/涓流转换电流	mA	250~500	303	301	Pass
	Over Current Protection /过载保护	A	4.0 Max	2.5	2.3	Pass
Efficiency/效率	%	80Min	91.0	90.8	Pass	
120VAC 60Hz /240VAC 60Hz	Temperature rise/ 温升 (In environmental temperature at 25 degrees/在环境温度为 25 度下)	℃	Case surface 外壳表面	The Temperature rise not exceed 50℃. 温升不高于 50℃.		
		℃	Winding & magnetic core 绕组 & 磁芯	The Temperature rise not exceed 85℃. 温升不高于 85℃.		
		℃	E Capacitor 高压电解电容	The Temperature rise not exceed 80℃. 温升不高于 80℃.		
		℃	Heat sink 散热片	The Temperature rise not exceed 80℃. 温升不高于 80℃.		
between input and output 介于输入与输出端子间	Hi-Pot/高压		1500VAC/ 10mA/60s	OK	OK	OK
Input: 120 VAC 60Hz 输入:120 VAC 60Hz	Burn in/烧机		Full load/满载 4 Hours/4 小时	OK	OK	OK
<p>Approved by: 核准</p> <p>Checked by: 审核</p> <p>Prepared: 制作</p>						