

SUNCOM 新创电源	产品类型	LED 驱动电源 LED INTEGRATED SPECIAL DRIVER		
	产品系列	GAE-50W系列	REV	V2.1

广东新创电源科技有限公司

客户承认书

SPECIFICATION FOR APPROVAL

CUSTOMER/客户名:	
MODEL NO. /产品型号:	GAE-50W系列
Rev. /版本号	V2.1
SAMPLE DATE/送样日期:	

客户确认栏

TESTED BY 检查	CHECKED BY 审核	APPROVED BY 批准
客户备注		

Please return to us one copy of “SPECIFICATION FOR APPROVAL” with you approved signature. /客户确认签章后请回传一份承认书给我公司.

新创确认栏

TESTED BY 检查	CHECKED BY 审核	APPROVED BY 批准

Guangdong Suncom Power Technology Co., Ltd

广东新创电源科技有限公司

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■ CHANGE HISTORY 变更履历

[illegible]

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◆ Features 产品特性:

- Input Voltage : 100-277Vac 50Hz/60Hz
输入电压:100-277Vac 50Hz/60Hz
- Isolation, Constant current mode output
隔离, 恒流模式输出
- Ultra High Efficiency (up to 91%)
效率高达91%
- Surge Protection: L-N :6KV;
防雷保护: 火线对零线6KV;
- Input Over/ Under-Voltage Protection
输入过压/欠压保护
- Over temperature drop current
过温降电流
- THD<10%

◆ Applications 产品应用:

Application: Street light、high bay lighting 、project light 、wash wall lamp or other lighting lamps
应用于: 路灯、洗墙灯、导轨灯等照明灯具

◆ Description 产品描述:

This product is a constant current drive power supply, Specially designed for LED, With low harmonic (< 10%), High power factor. Built-in Surge protection, Input Over / Under voltage protection, Over temperature drop current function, Output Open-circuit、Short-circuit Protection, Greatly improve the safety and reliability of the product.

本产品为恒流驱动电源, 专为LED设计, 具有低谐波(<10%)、高功率因数。内置防雷保护, 输入过压/欠压保护, 过温降电流功能, 输出开路、短路保护, 极大的提高了产品的安全可靠性能。

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■ MODEL LIST 型号列表

Model 型号	Rated Power 额定输出功率	Input Voltage 输入电压	Output Voltage 输出电压范围	Output Current 输出电流	THD. (Typ)	PF. (Typ)
GAE-50W1A5-38	50W	100-277Vac	22-38V	1. 5A	5. 22%	0. 98
GAE-50W1A35-38	50W	100-277Vac	22-38V	1. 35A	5. 84%	0. 98
GAE-50W1A2-45	50W	100-277Vac	23-45V	1. 2A	5. 01%	0. 98
GAE-50W900-56	50W	100-277Vac	34-56V	0. 9A	5. 91%	0. 98
GAE-50W600-87	50W	100-277Vac	54-87V	0. 6A	6. 01%	0. 98

NOTE: All parameters NOT special mentioned are measured at 230Vac input, rated load and 25℃ of ambient temperature ; 如未特殊注明 , 所有参数均在 230Vac 输入、额定负载、25℃环境温度下测量

■ ELECTRICAL SPECIFICATION 电气规格

◆ 输入性能 Input performance:

Parameter 参数	Min. 最小值	Typ. 典型值	Max. 最大值	Notes. 备注
Voltage Range 电压范围	90Vac	100-277Vac	305Vac	-
Frequency Range 频率范围	47Hz	50/60Hz	63Hz	-
AC Current 交流电流	-	-	0. 68A	-
Inrush Current 浪涌电流	-	-	60A	At 230Vac input, 25℃ cold start 环温 25℃, 230Vac 冷机启动
PF. 功率因数	0. 95	0. 98	-	At 230Vac input, full load 满载, 输入 230Vac 下测量
THD. 总谐波失真	-	6%	10%	

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◆ 输出性能：Output performance

Parameter 参数	Min. 最小值	Typ. 典型值	Max. 最大值	Notes. 备注
Voltage Range 电压范围	22VDC	—	38VDC	GAE-50W1A5-38 (1.5A电流最大带载33V) GAE-50W1A35-38
	23VDC	—	45VDC	GAE-50W1A2-45 (1.2A电流最大带载42V)
	34VDC	—	56VDC	GAE-50W900-56
	54VDC	—	87VDC	GAE-50W600-87 (0.6A电流最大带载84V)
Rated Current 额定电流	1420mA	1480mA	1560mA	GAE-50W1A5-38
	1280mA	1350mA	1410mA	GAE-50W1A35-38
	1120mA	1180mA	1250mA	GAE-50W1A2-45
	840mA	880mA	930mA	GAE-50W900-56
	560mA	590mA	620mA	GAE-50W600-87
Rated Power 额定功率	—	—	50W	—
Over Voltage 空载电压	45V	—	50V	GAE-50W1A5-38 GAE-50W1A35-38
	55V	—	60V	GAE-50W1A2-45
	60V	—	70V	GAE-50W900-56
	98V	—	110V	GAE-50W600-87
Efficiency 效率	≧90%	90.5%	—	GAE-50W1A5-38 GAE-50W1A35-38
	≧91%	91.3%	—	GAE-50W1A2-45
	≧91%	91.5%	—	GAE-50W900-56
	≧92%	≧92.5%	—	GAE-50W600-87
Measured Current Tolerance 电流精度	-5%	—	+5%	—
Line Regulation 线性调整率	-3%	—	+3%	—
Load Regulation 负载调整率	-3%	—	+3%	—
Current Ripple 纹波电流	—	—	<60%	—
Turn-on Delay Time 启动时间	—	500mS	<1S	Measured at full load and 230Vac input
Short Circuit Protection 短路保护	—	—	1W	Hiccup mode, recovers automatically after fault condition is removed 打嗝模式，故障排除后自动恢复
Over-temperature protection 过温保护	—	90℃	-	Shell Tc point temperature, Drop current mode, the current automatically recovers after over temperature release, 外壳TC点温度，降电流模式，过温解除后，电 流自动恢复
Under Voltage Protection 欠压保护	90Vac	95Vac	100Vac	Reduce output current, resume work after the AC voltage is normal 降低输出电流， 交流电压正常后恢复工作
Over Voltage Protection 过压保护	325Vac	330Vac	335Vac	Turn off the output voltage , resume work after the AC voltage is normal 关断输出电压，交流电压正常后恢复工作

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■ 环境：Environment

Parameter 参数	Min. 最小值	Typ. 典型值	Max. 最大值	Notes. 备注
Working TEMP 工作温度	-40℃	+25℃	+65℃	-
Storage TEMP 储存温度	-40℃	+25℃	+85℃	-
Working Humidity 工作湿度	20% RH	-	90% RH	-
Storage Humidity 储存湿度	10% RH	-	90% RH	-
Maximum shell TEMP 最大壳温	-	-	+90℃	-

■ 安规和电磁兼容：

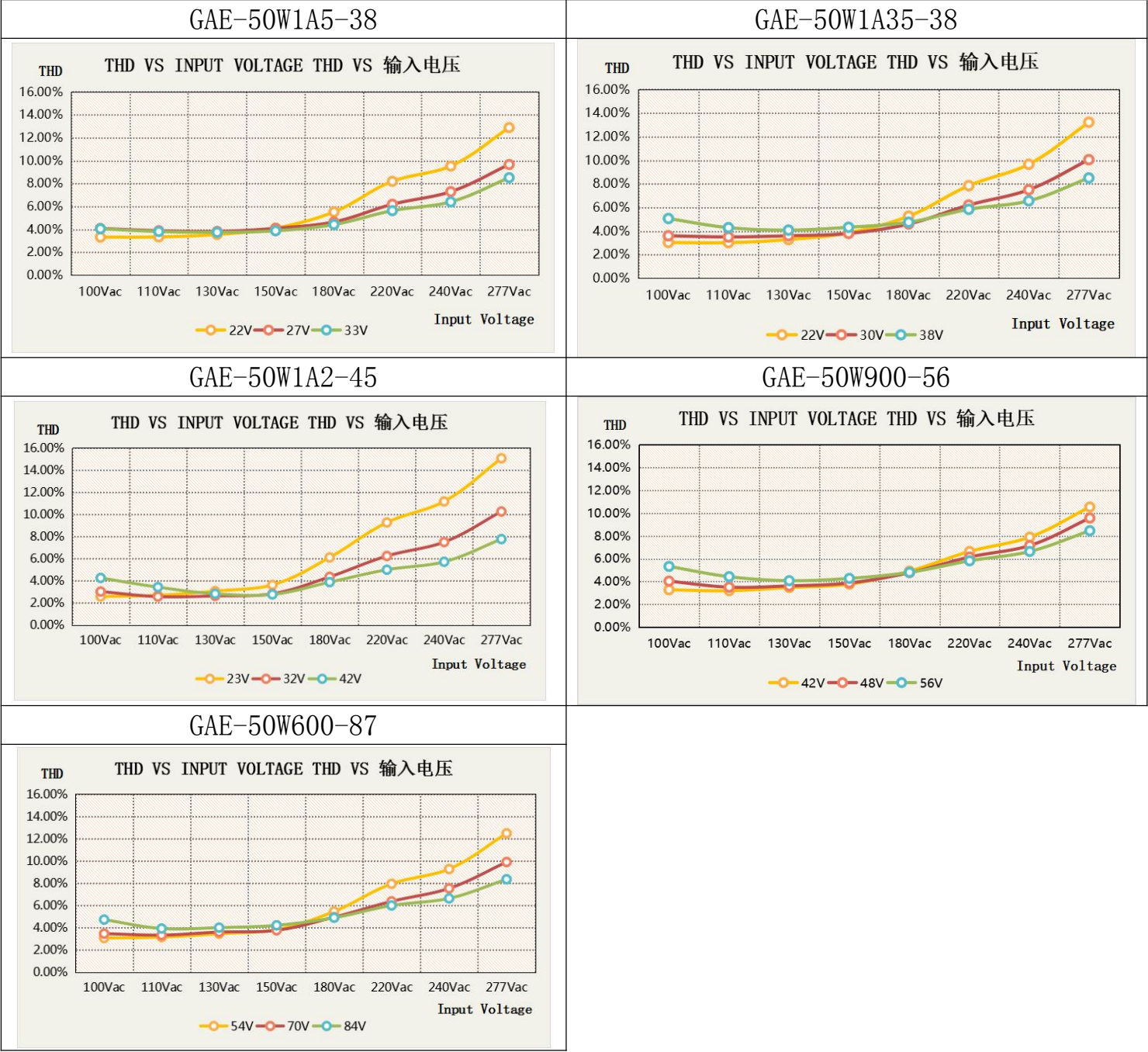
Withstand voltage 耐压	I/P-0/P:1.75KVAC,
isolation resistance 绝缘阻抗	≥10MΩ at I/P - FG 500VDC Test
leakage current 漏电流	<0.75mA/277Vac
Earthing resistance 接地电阻	-
Surge 浪涌	差模 L-N +/- 6KV (2 ohm)
conducted electromagnetic interference 传导	-
Radiated electromagnetic interference 辐射	-

NOTE:

- 1) All parameters NOT specially mentioned are measured at 230Vac (50Hz) input, rated load and 25℃ of ambient temperature.
如未特别说明，所有规格参数均在 230Vac (50Hz) 输入，额定负载，环境温度 25℃ 的条件下进行测量
- 2) Tolerance : includes set up tolerance, line regulation and load regulation.
误差：包含设定误差、线性调整率和负载调整率。

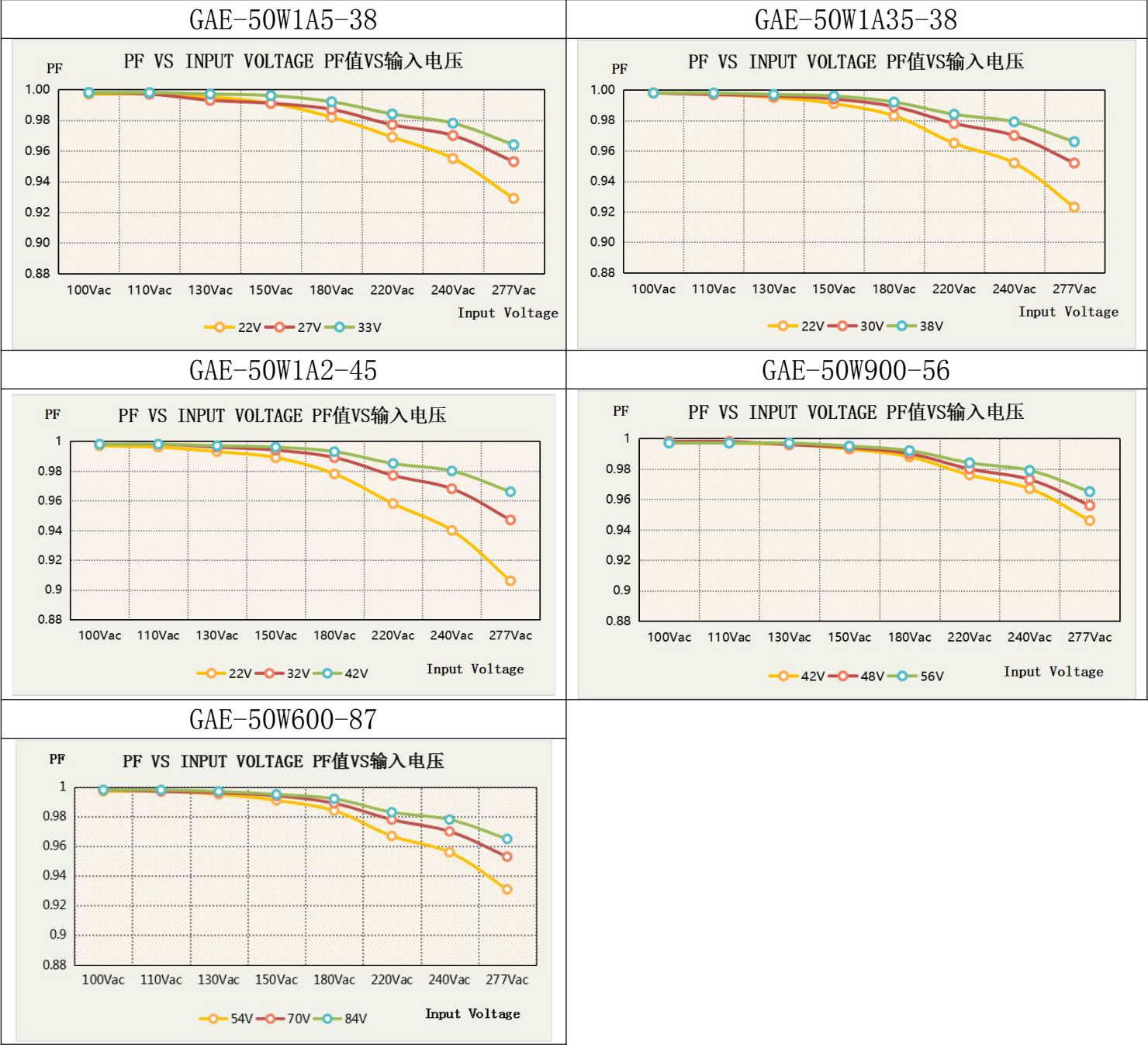
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THD VS INPUT VOLTAGE THD VS 输入电压



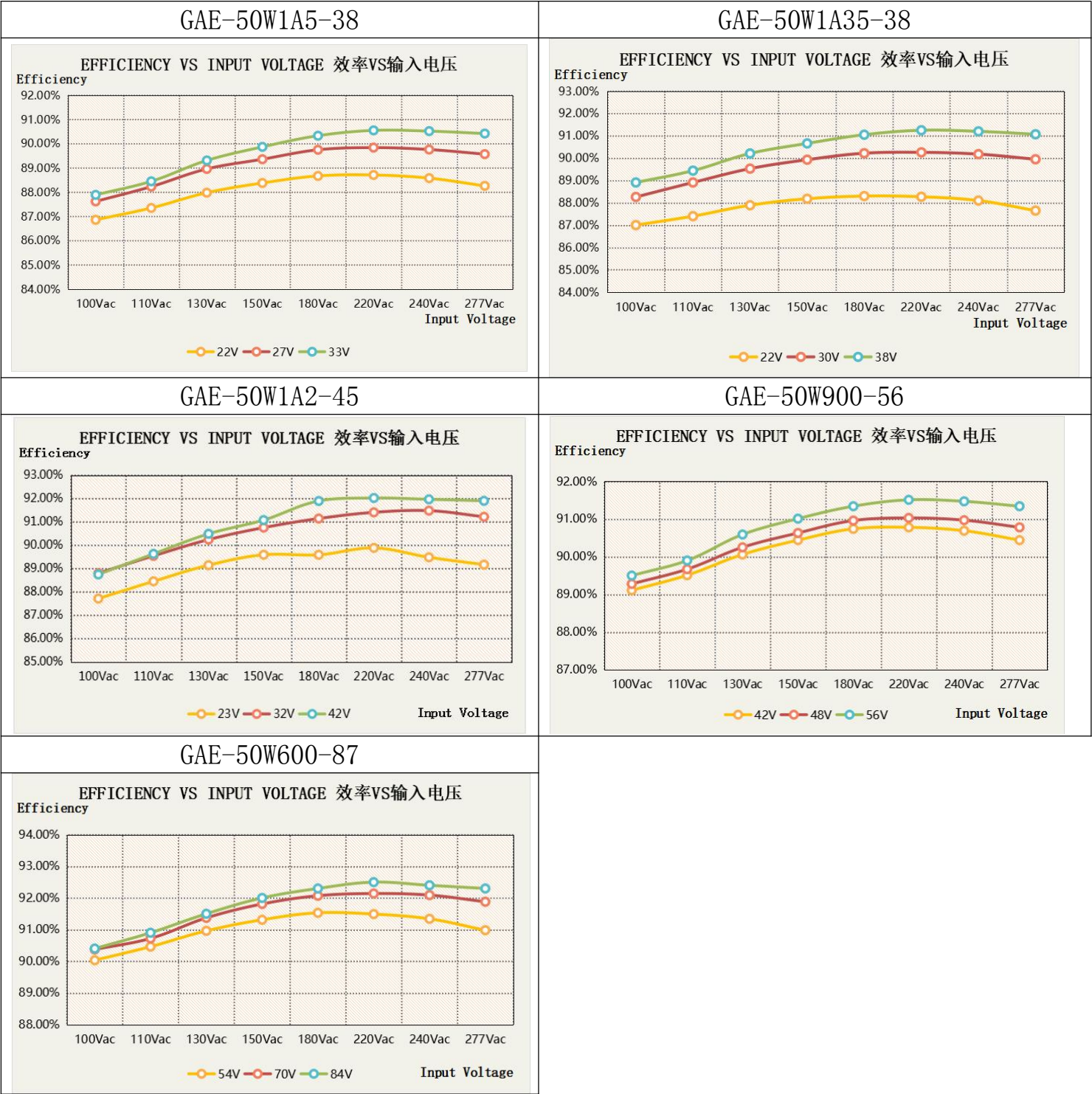
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■ PF VS INPUT VOLTAGE PF 值 VS 输入电压



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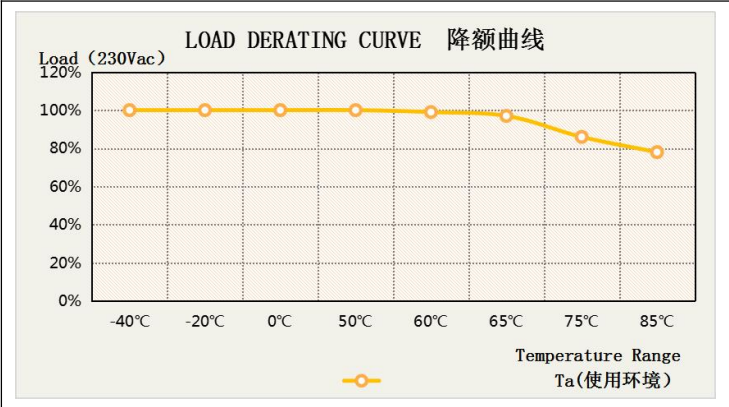
EFFICIENCY VS INPUT VOLTAGE 效率 VS 输入电压



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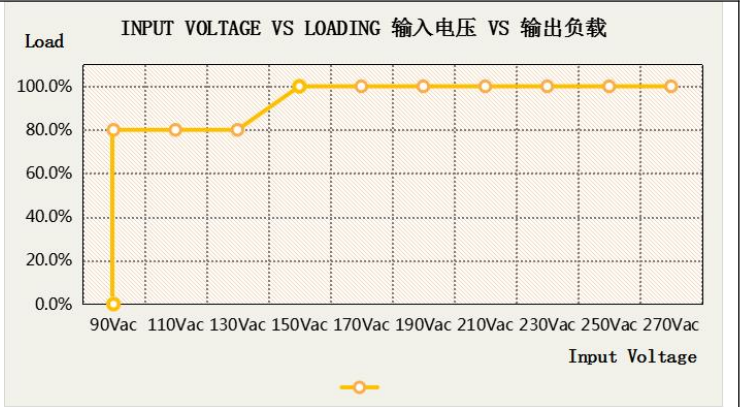
LOAD DERATING CURVE

降额曲线



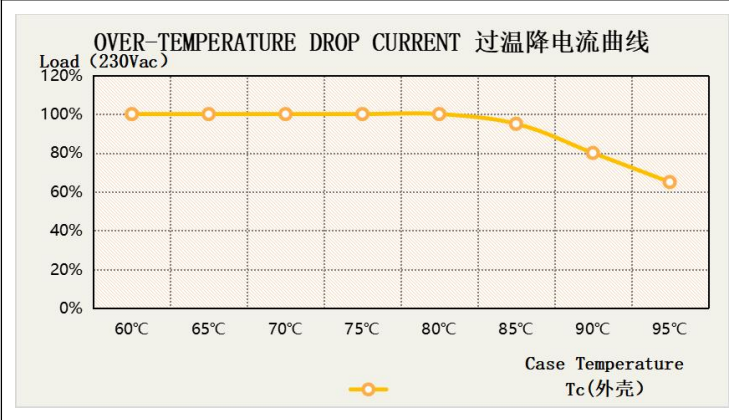
INPUT VOLTAGE VS LOADING

输入电压 VS 输出负载



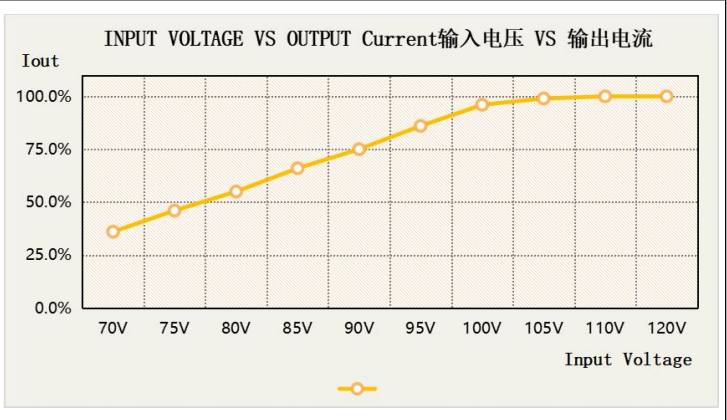
OVER-TEMPERATURE DROP CURRENT

过温降电流曲线



Under-voltage DROP CURRENT

欠压降电流曲线



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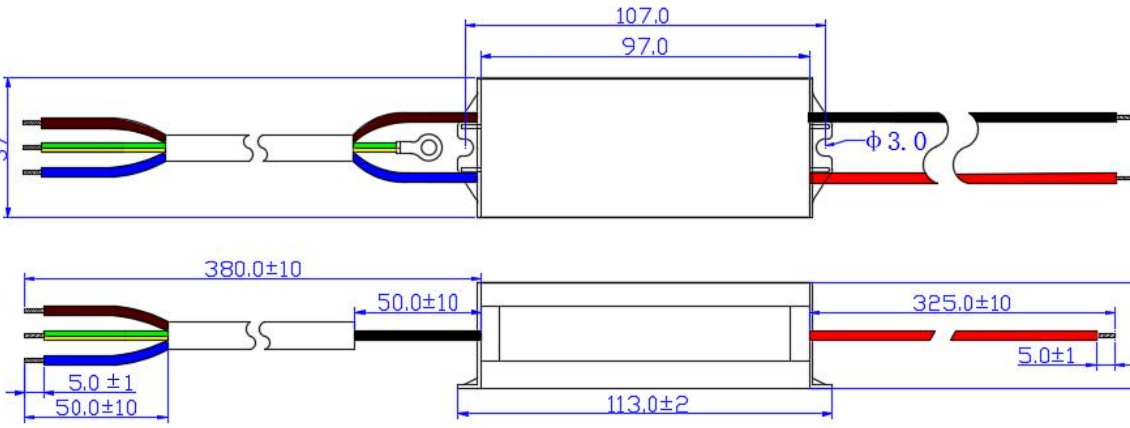
MECHANICAL SPECIFICATION & PACKING 机械尺寸图 & 包装:

Bare plate dimension 裸板尺寸	81*33*22mm (L*W*H)
final dimension 成品尺寸	113*37*28mm (L*W*H)
Product Weight 产品重量	210g

Case No. 机壳型号: 50W

Unit 单位:mm

棕色 : L
黄绿色: ⊕
蓝色 : N



黑色 : V-
红色 : V+

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■ Nameplate 铭牌

尺寸：94*28mm 样式：贴纸

GAE-50W1A5-38		GAE-50W1A35-38																									
SUNCOM GAE-50W1A5-38 (型号)LED控制装置 <table><tr><td>INPUT 输入端</td><td>Vin(输入):100-277V~0.68A 50/60Hz</td><td>Vout(输出):22-38V $\pm$ 1500mA$\pm$5%</td><td>OUTPUT 输出端</td></tr><tr><td>○ ACL(BN棕)</td><td>η:$\geq$90% PF:$\geq$0.95 •tc</td><td>Max.Uout(最大电压): 50V $\pm$</td><td>(BK黑)Vo - ○</td></tr><tr><td>○ ACN(BU蓝)</td><td>ta:65°C tc:90°C</td><td>Rated Power(额定功率):50W</td><td>(RD红)Vo + ○</td></tr></table> MADE IN CHINA (中国制造) 广东新创电源科技有限公司 www.gdsuncom.com GUANGDONG SUNCOM POWER TECHNOLOGY CO., LTD SELV IP65  		INPUT 输入端	Vin(输入):100-277V~0.68A 50/60Hz	Vout(输出):22-38V $\pm$ 1500mA $\pm$ 5%	OUTPUT 输出端	○ ACL(BN棕)	η : $\geq$ 90% PF: $\geq$ 0.95 •tc	Max.Uout(最大电压): 50V $\pm$	(BK黑)Vo - ○	○ ACN(BU蓝)	ta:65°C tc:90°C	Rated Power(额定功率):50W	(RD红)Vo + ○	SUNCOM GAE-50W1A35-38 (型号)LED控制装置 <table><tr><td>INPUT 输入端</td><td>Vin(输入):100-277V~0.68A 50/60Hz</td><td>Vout(输出):22-38V $\pm$ 1350mA$\pm$5%</td><td>OUTPUT 输出端</td></tr><tr><td>○ ACL(BN棕)</td><td>η:$\geq$90% PF:$\geq$0.95 •tc</td><td>Max.Uout(最大电压): 50V $\pm$</td><td>(BK黑)Vo - ○</td></tr><tr><td>○ ACN(BU蓝)</td><td>ta:65°C tc:90°C</td><td>Rated Power(额定功率):50W</td><td>(RD红)Vo + ○</td></tr></table> MADE IN CHINA (中国制造) 广东新创电源科技有限公司 www.gdsuncom.com GUANGDONG SUNCOM POWER TECHNOLOGY CO., LTD SELV IP65  		INPUT 输入端	Vin(输入):100-277V~0.68A 50/60Hz	Vout(输出):22-38V $\pm$ 1350mA $\pm$ 5%	OUTPUT 输出端	○ ACL(BN棕)	η : $\geq$ 90% PF: $\geq$ 0.95 •tc	Max.Uout(最大电压): 50V $\pm$	(BK黑)Vo - ○	○ ACN(BU蓝)	ta:65°C tc:90°C	Rated Power(额定功率):50W	(RD红)Vo + ○
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GAE-50W1A2-45		GAE-50W900-56																									
SUNCOM GAE-50W1A2-45 (型号)LED控制装置 <table><tr><td>INPUT 输入端</td><td>Vin(输入):100-277V~0.68A 50/60Hz</td><td>Vout(输出):23-45V $\pm$ 1200mA$\pm$5%</td><td>OUTPUT 输出端</td></tr><tr><td>○ ACL(BN棕)</td><td>η:$\geq$91% PF:$\geq$0.95 •tc</td><td>Max.Uout(最大电压): 60V $\pm$</td><td>(BK黑)Vo - ○</td></tr><tr><td>○ ACN(BU蓝)</td><td>ta:65°C tc:90°C</td><td>Rated Power(额定功率):50W</td><td>(RD红)Vo + ○</td></tr></table> MADE IN CHINA (中国制造) 广东新创电源科技有限公司 www.gdsuncom.com GUANGDONG SUNCOM POWER TECHNOLOGY CO., LTD SELV IP65  		INPUT 输入端	Vin(输入):100-277V~0.68A 50/60Hz	Vout(输出):23-45V $\pm$ 1200mA $\pm$ 5%	OUTPUT 输出端	○ ACL(BN棕)	η : $\geq$ 91% PF: $\geq$ 0.95 •tc	Max.Uout(最大电压): 60V $\pm$	(BK黑)Vo - ○	○ ACN(BU蓝)	ta:65°C tc:90°C	Rated Power(额定功率):50W	(RD红)Vo + ○	SUNCOM GAE-50W900-56 (型号)LED控制装置 <table><tr><td>INPUT 输入端</td><td>Vin(输入):100-277V~0.68A 50/60Hz</td><td>Vout(输出):34-56V $\pm$ 900mA$\pm$5%</td><td>OUTPUT 输出端</td></tr><tr><td>○ ACL(BN棕)</td><td>η:$\geq$91% PF:$\geq$0.95 •tc</td><td>Max.Uout(最大电压): 70V $\pm$</td><td>(BK黑)Vo - ○</td></tr><tr><td>○ ACN(BU蓝)</td><td>ta:65°C tc:90°C</td><td>Rated Power(额定功率):50W</td><td>(RD红)Vo + ○</td></tr></table> MADE IN CHINA (中国制造) 广东新创电源科技有限公司 www.gdsuncom.com GUANGDONG SUNCOM POWER TECHNOLOGY CO., LTD SELV IP65  		INPUT 输入端	Vin(输入):100-277V~0.68A 50/60Hz	Vout(输出):34-56V $\pm$ 900mA $\pm$ 5%	OUTPUT 输出端	○ ACL(BN棕)	η : $\geq$ 91% PF: $\geq$ 0.95 •tc	Max.Uout(最大电压): 70V $\pm$	(BK黑)Vo - ○	○ ACN(BU蓝)	ta:65°C tc:90°C	Rated Power(额定功率):50W	(RD红)Vo + ○
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SUNCOM GAE-50W600-87 (型号)LED控制装置 <table><tr><td>INPUT 输入端</td><td>Vin(输入):100-277V~0.68A 50/60Hz</td><td>Vout(输出):54-87V $\pm$ 600mA$\pm$5%</td><td>OUTPUT 输出端</td></tr><tr><td>○ ACL(BN棕)</td><td>η:$\geq$92% PF:$\geq$0.95 •tc</td><td>Max.Uout(最大电压): 110V $\pm$</td><td>(BK黑)Vo - ○</td></tr><tr><td>○ ACN(BU蓝)</td><td>ta:65°C tc:90°C</td><td>Rated Power(额定功率):50W</td><td>(RD红)Vo + ○</td></tr></table> MADE IN CHINA (中国制造) 广东新创电源科技有限公司 www.gdsuncom.com GUANGDONG SUNCOM POWER TECHNOLOGY CO., LTD SELV IP65  		INPUT 输入端	Vin(输入):100-277V~0.68A 50/60Hz	Vout(输出):54-87V $\pm$ 600mA $\pm$ 5%	OUTPUT 输出端	○ ACL(BN棕)	η : $\geq$ 92% PF: $\geq$ 0.95 •tc	Max.Uout(最大电压): 110V $\pm$	(BK黑)Vo - ○	○ ACN(BU蓝)	ta:65°C tc:90°C	Rated Power(额定功率):50W	(RD红)Vo + ○														
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