

SUNCOM® 新创电源	产品类型	LED 驱动电源 LED INTEGRATED SPECIAL DRIVER		
	产品系列	GPE-36W系列	REV	V2.0

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:	GPE-36W系列
Rev. /版本号	V2.0
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

No.1 of Yongyi 3rd Road Henglan Town Zhongshan Guangdong China Post code528478

地址：广东省中山市横栏镇永兴工业区永谊三路1号 邮编：528478

TEL:0760-22326609 28168136 FAX:0760-87600929

	产品类型	LED 驱动电源 LED INTEGRATED SPECIAL DRIVER		
	产品系列	GPE-36W系列	REV	V2.0

◆ Features 产品特性:

- Input Rated voltage : 100-277Vac 50Hz/60Hz

输入额定电压范围:100-277Vac 50Hz/60Hz

- Isolation, Constant current mode output

隔离, 恒流模式输出

- Ultra high efficiency (up to 90%)

效率高达90%

- Surge Protection: L-N :4KV

防雷保护: 线对线4KV

◆ Applications 产品应用:

Application: Street light、High bay lighting 、Track light 、Wash wall lamp or other lighting lamps

应用于: 路灯、工矿灯、导轨灯、洗墙灯等照明灯具

◆ Description 产品描述:

The product is a constant current drive power supply, Designed for LED, With Low Harmonics

(Typ:<10%) , High power factor. Built-in surge protection, Output open-circuit, Short-circuit protection, Greatly improve the safety and reliability of products

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, 输出开路、短路保护, 极大的提高了产品的安全可靠性能。

SUNCOM® 新创电源	产品类型	LED 驱动电源 LED INTEGRATED SPECIAL DRIVER		
	产品系列	GPE-36W系列	REV	V2.0

■ 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)
GPE-36W900-42	36W	100-277Vac	24-42V	900mA	7.5%	0.96
GPE-36W600-63	36W	100-277Vac	34-63V	600mA	7.5%	0.97
GPE-36W300-122	36W	100-277Vac	68-122V	300mA	7.5%	0.97
GPE-36W250-122	36W	100-277Vac	68-122V	250mA	7.5%	0.97

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	100Vac	110-240Vac	277Vac	
Frequency Range 频率范围	47Hz	50Hz/60Hz	63Hz	
AC Current 交流电流	—	—	0.5A	
Inrush Current 浪涌电流	—	—	30A	At 230Vac input, 25℃ cold start 环温 25℃，230Vac 冷机启动
PF. 功率因数	0.9	0.96	—	At 230Vac input, full load 满载，输入 230Vac 下测量
THD. 总谐波失真	—	8%	<10%	

SUNCOM® 新创电源	产品类型	LED 驱动电源 LED INTEGRATED SPECIAL DRIVER		
	产品系列	GPE-36W系列	REV	V2.0

◆ 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	24VDC	—	42VDC	GPE-36W900-42
	34VDC	—	63VDC	GPE-36W600-63
	68VDC	—	122VDC	GPE-36W300-122
	68VDC	—	122VDC	GPE-36W250-122
Rated Current 额定电流	840mA	880mA	920mA	GPE-36W900-42
	555mA	585mA	615mA	GPE-36W600-63
	275mA	290mA	305mA	GPE-36W300-122
	235mA	250mA	265mA	GPE-36W250-122
Rated Power 额定功率	—	—	36W	—
Over Voltage 空载电压	47VDC	—	55VDC	GPE-36W900-42
	74VDC	—	85VDC	GPE-36W600-63
	135VDC	—	150VDC	GPE-36W300-122
	135VDC	—	150VDC	GPE-36W250-122
Efficiency 效率 At 230Vac input, full load 满载，输入230Vac下测量	≥89%	89.4%	—	GPE-36W900-42
	≥90%	90.7%	—	GPE-36W600-63
	≥91%	91.8%	—	GPE-36W300-122
	≥91%	91.8%	—	GPE-36W250-122
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	—	±43%	<±50%	—
Turn-on Delay Time 启动时间	—	0.8S	<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

SUNCOM® 新创电源	产品类型	LED 驱动电源 LED INTEGRATED SPECIAL DRIVER		
	产品系列	GPE-36W系列	REV	V2.0

■ 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℃	-

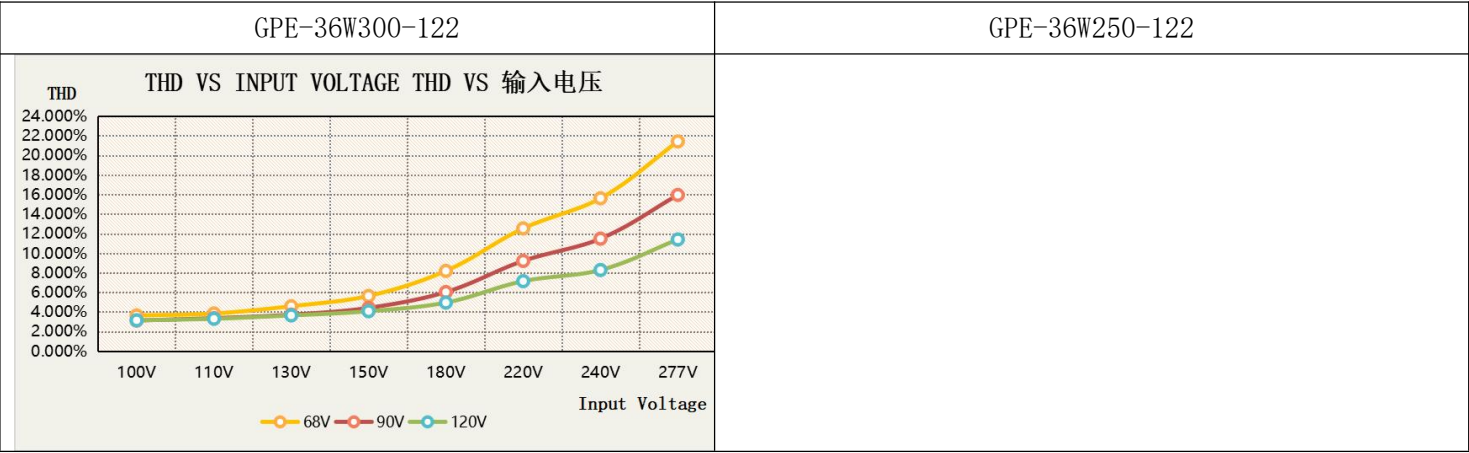
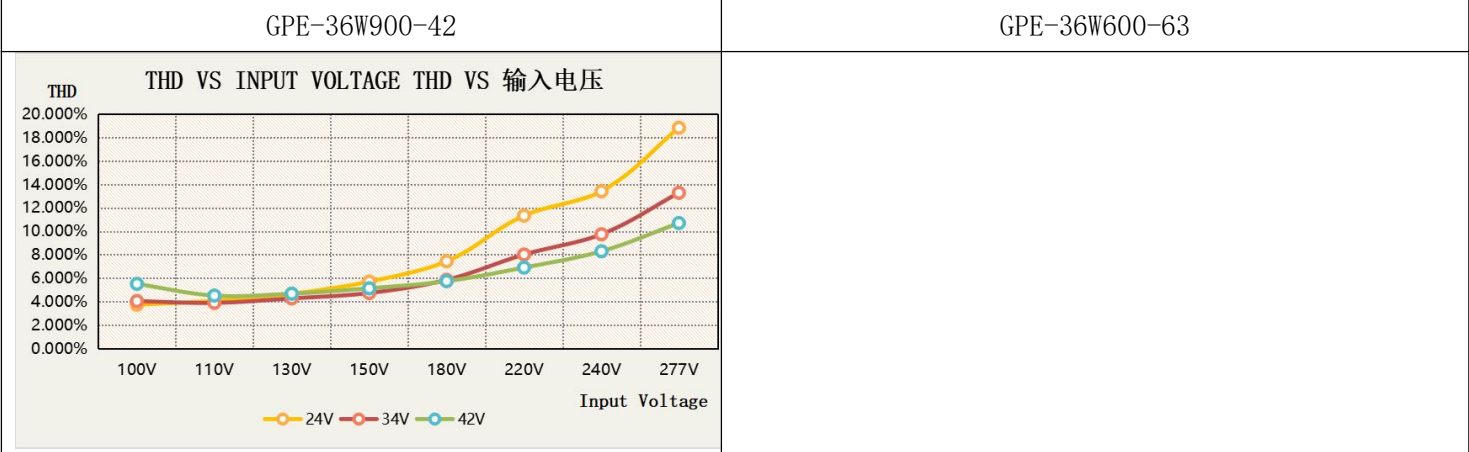
■ 安规和电磁兼容：

Withstand voltage 耐压	I/P - O/P:1.5KVAC
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	L-N: +/- 4KV (2 ohm)
conducted electromagnetic interference 传导	/
Radiated electromagnetic interference 辐射	/

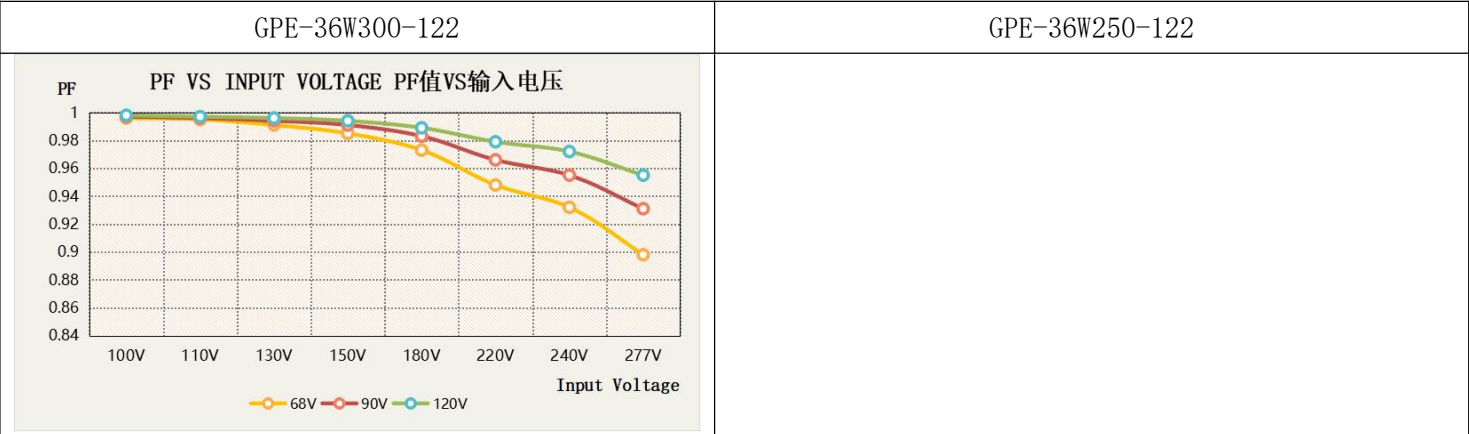
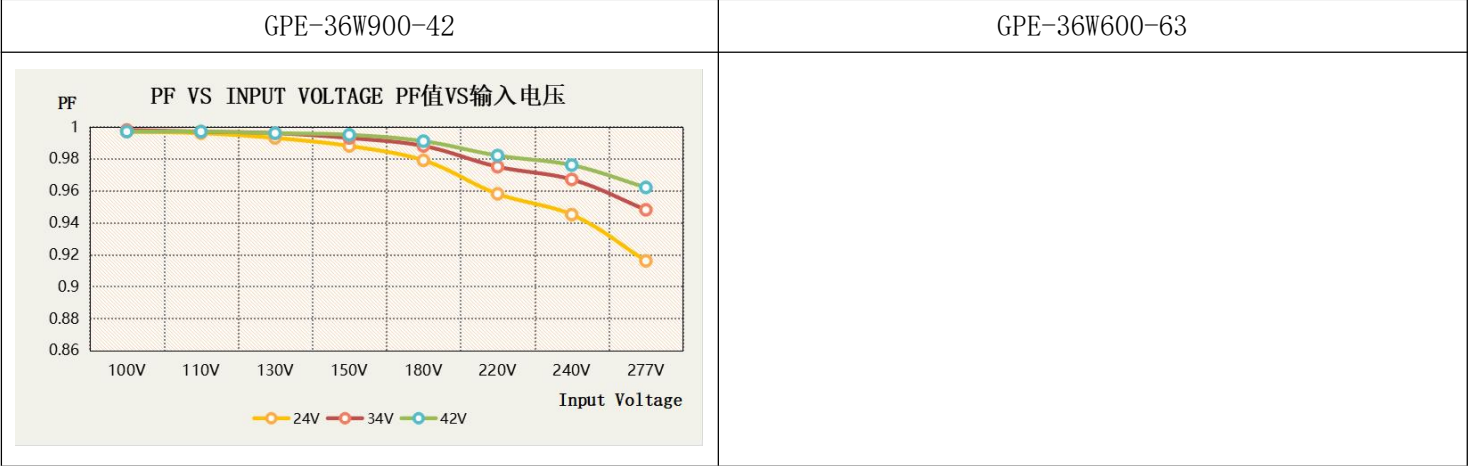
NOTE:

- 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。

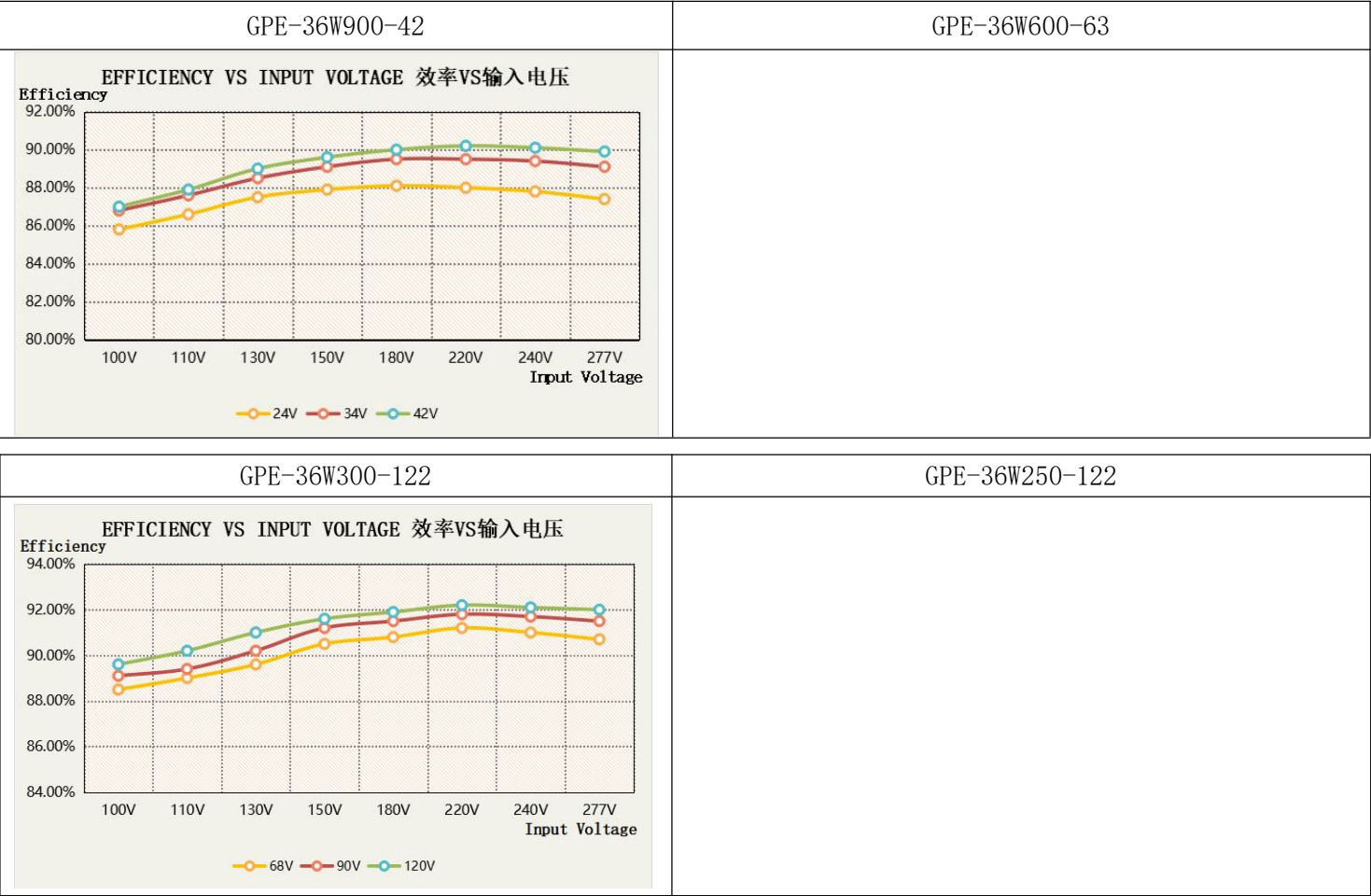
THD VS INPUT VOLTAGE THD VS 输入电压



PF VS INPUT VOLTAGE PF 值 VS 输入电压

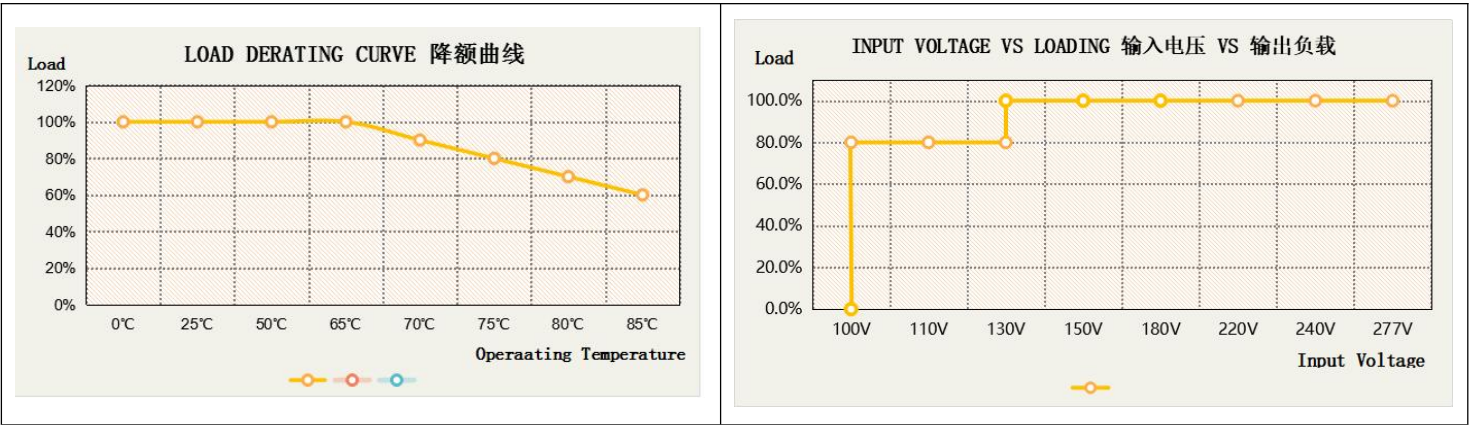


EFFICIENCY VS INPUT VOLTAGE 效率 VS 输入电压



LOAD DERATING CURVE 降额曲线
输入电压 VS 输出负载

INPUT VOLTAGE VS LOADING 输入电压 VS 输出负载



SUNCOM® 新创电源	产品类型	LED 驱动电源 LED INTEGRATED SPECIAL DRIVER		
	产品系列	GPE-36W系列	REV	V2.0

MECHANICAL

SPECIFICATION & PACKING

机械尺寸图 & 包装:

Bare plate dimension 裸板尺寸	73*27*20mm (L*W*H)
final dimension 成品尺寸	102*32*24
Product Weight 产品重量	145g
Case No. 机壳型号: 36W Unit 单位:mm 黄绿色: ⊕ 蓝色: N 棕色: L 黑色: V- 红色: V+	

Nameplate

铭牌

尺寸: 80*20mm 样式: 贴纸

GPE-36W900-42	GPE-36W600-63
SUNCOM® GPE-36W900-42 Input:100-277VAC 0.5A Max 50/60Hz η:≥89% PF:≥0.95 ta:65℃ tc:90℃ Output:24-42VDC 900mA±5% Rated Power: 36W •tc SELV IP65	SUNCOM® GPE-36W600-63 Input:100-277VAC 0.5A Max 50/60Hz η:≥90% PF:≥0.95 ta:65℃ tc:90℃ Output:34-63VDC 600mA±5% Rated Power: 36W •tc SELV IP65
GPE-36W300-122	GPE-36W250-122
SUNCOM® GPE-36W300-122 Input:100-277VAC 0.5A Max 50/60Hz η:≥91% PF:≥0.95 ta:65℃ tc:90℃ Output:68-122VDC 300mA±5% Rated Power: 36W •tc SELV IP65	SUNCOM® GPE-36W250-122 Input:100-277VAC 0.5A Max 50/60Hz η:≥91% PF:≥0.95 ta:65℃ tc:90℃ Output:68-122VDC 250mA±5% Rated Power: 36W •tc SELV IP65