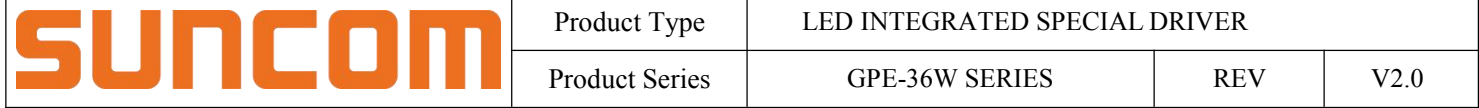


SUNCOM	Product Type	LED INTEGRATED SPECIAL DRIVER		
	Product Series	GPE-36W SERIES	REV	V2.0

SPECIFICATION FOR APPROVAL

CUSTOMER:			
MODEL NO.:	GPE-36W SERIES		
Rev.	V2.0		
SAMPLE DATE:			
Customer Confirmation			
TESTED BY	CHECKED BY	APPROVED BY	
NOTE			
Please return to us one copy of “SPECIFICATION FOR APPROVAL” with you approved signature.			
SUNCOM Confirmation			
TESTED BY	CHECKED BY	APPROVED BY	
Guangdong Suncom Power Technology Co., Ltd No.1 of Yongyi 3rd Road Henglan Town Zhongshan Guangdong China. Post code:528478 TEL:0760-22326609 28168136 FAX:0760-87600929			



LED INTEGRATED SPECIAL DRIVER

GPE-36W SERIES

REV

V2.0

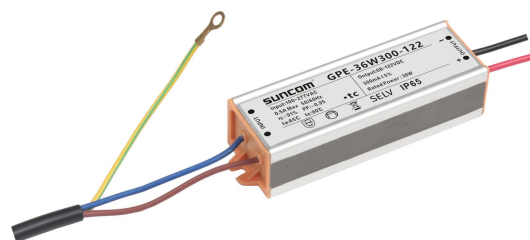
■ CHANGE HISTORY

[illegible]

	Product Type	LED INTEGRATED SPECIAL DRIVER		
	Product Series	GPE-36W SERIES	REV	V2.0

◆ Features:

- Input Rated voltage : 100-277Vac 50Hz/60Hz
- Isolation, Constant current mode output
- Ultra high efficiency (up to 90%)
- Surge Protection: L-N :4KV



◆ Applications :

Application: Street light, high bay lighting, track light, wash wall lamp or other lighting lamps

◆ Description:

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.

■ MODELLIST

Model	Rated Power	Input Voltage	Output Voltage	Output Current	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

SUNCOM	Product Type	LED INTEGRATED SPECIAL DRIVER		
	Product Series	GPE-36W SERIES	REV	V2.0

■ ELECTRICAL SPECIFICATION

◆ Input performance:

Parameter	Min.	Typ.	Max.	Notes
Voltage Range	100Vac	110-240Vac	277Vac	
Frequency Range	47Hz	50Hz/60Hz	63Hz	
AC Current	-	-	0.5A	
Inrush Current	-	-	30A	At 230Vac input, 25°C cold start
PF.	0.9	0.96	-	At 230Vac input, full load
THD.	-	8%	<10%	

◆ Output performance

Parameter	Min.	Typ.	Max.	Notes
Voltage Range	24VDC	-	42VDC	GPE-36W900-42
	34VDC	-	63VDC	GPE-36W600-63
	68VDC	-	122VDC	GPE-36W300-122
	68VDC	-	122VDC	GPE-36W250-122
Rated Current	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	-	-	36W	-
Over Voltage	47VDC	-	55VDC	GPE-36W900-42
	74VDC	-	85VDC	GPE-36W600-63
	135VDC	-	150VDC	GPE-36W300-122
	135VDC	-	150VDC	GPE-36W250-122
Efficiency At 230Vac input, full load	≥ 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	-5%	-	+5%	-
Line Regulation	-3%	-	+3%	-

SUNCOM	Product Type	LED INTEGRATED SPECIAL DRIVER		
	Product Series	GPE-36W SERIES	REV	V2.0

Load Regulation	-3%	-	+3%	-
Current Ripple	-	±43%	<±50%	-
Turn-on Delay Time	-	0.8S	<1S	Measured at full load and 230Vac input
Short Circuit Protection	-	-	<1W	Hiccup mode,recovers automatically after fault condition is removed

Environment

Parameter	Min.	Typ.	Max.	Notes
Working TEMP	-40℃	+25℃	+65℃	-
Storage TEMP	-40℃	+25℃	+85℃	-
Working Humidity	20% RH	-	90% RH	-
Storage Humidity	10% RH	-	90% RH	-
Maximum shell TEMP	-	-	+90℃	-

Safety and EMC:

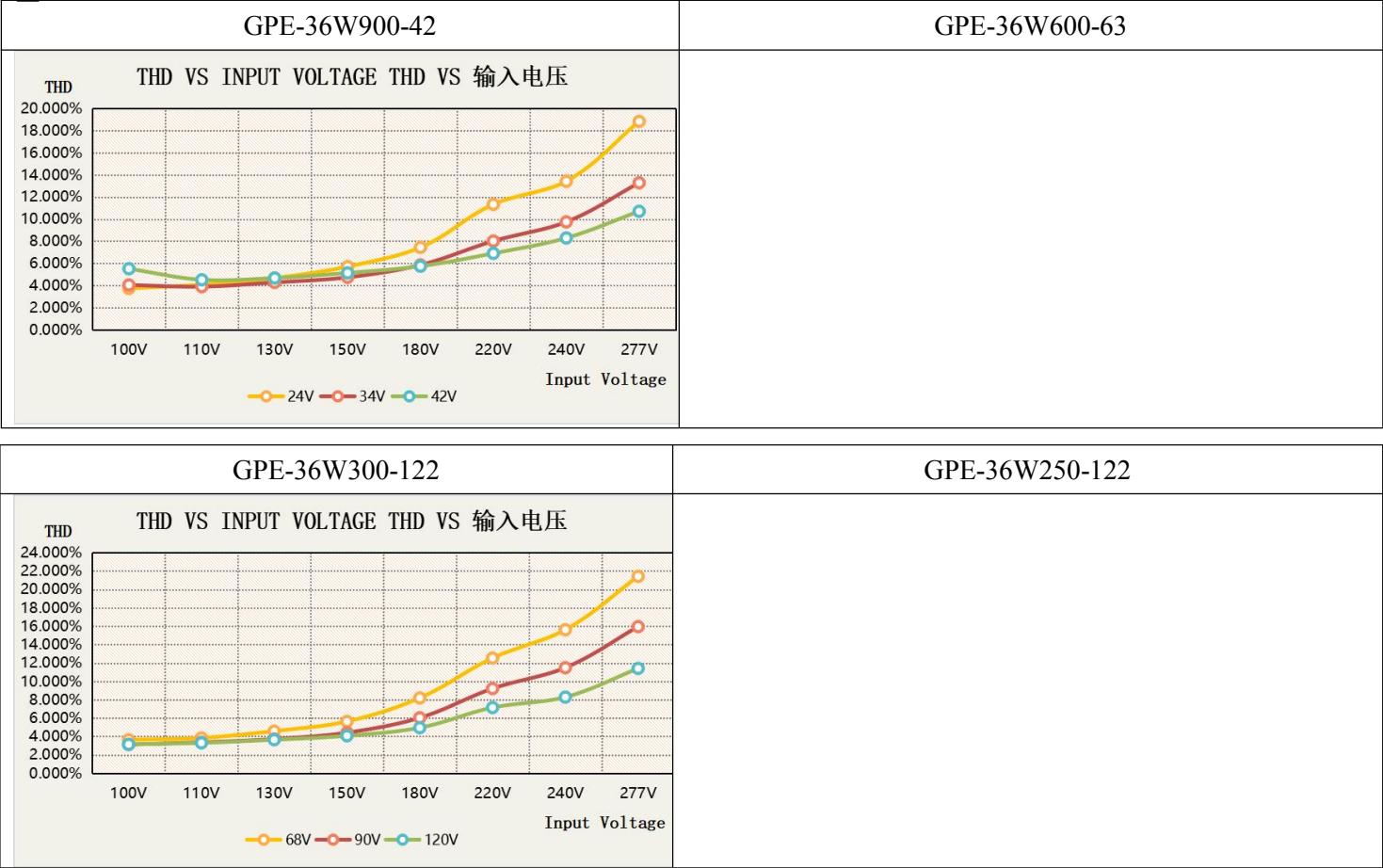
Withstand voltage	I/P - O/P:1.5KVAC
Isolation resistance	≧ 10MΩ at I/P - FG 500VDC Test
Leakage current	<0.75mA/277Vac
Earthing resistance	/
Surge	L-N: +/- 4KV (2 ohm)
Conducted electromagnetic interference	/
Radiated electromagnetic interference	/

NOTE:

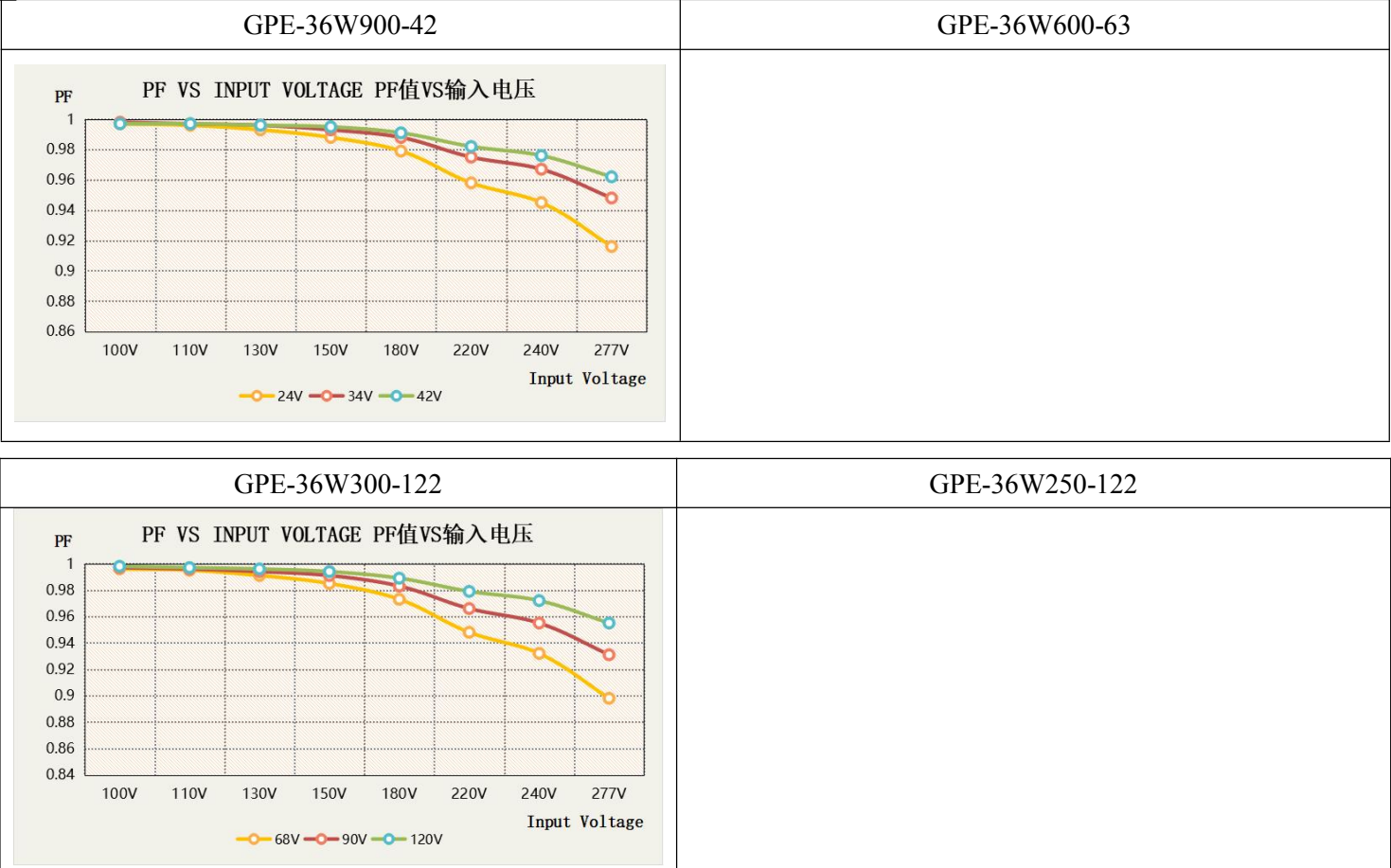
- 1)All parameters NOT specially mentioned are measured at 230Vac (50Hz) input, rated load and 25℃ of ambient temperature.
- 2) Tolerance:includes set up tolerance,lineregulation and load regulation.

	Product Type	LED INTEGRATED SPECIAL DRIVER		
	Product Series	GPE-36W SERIES	REV	V2.0

THD VS INPUT VOLTAGE

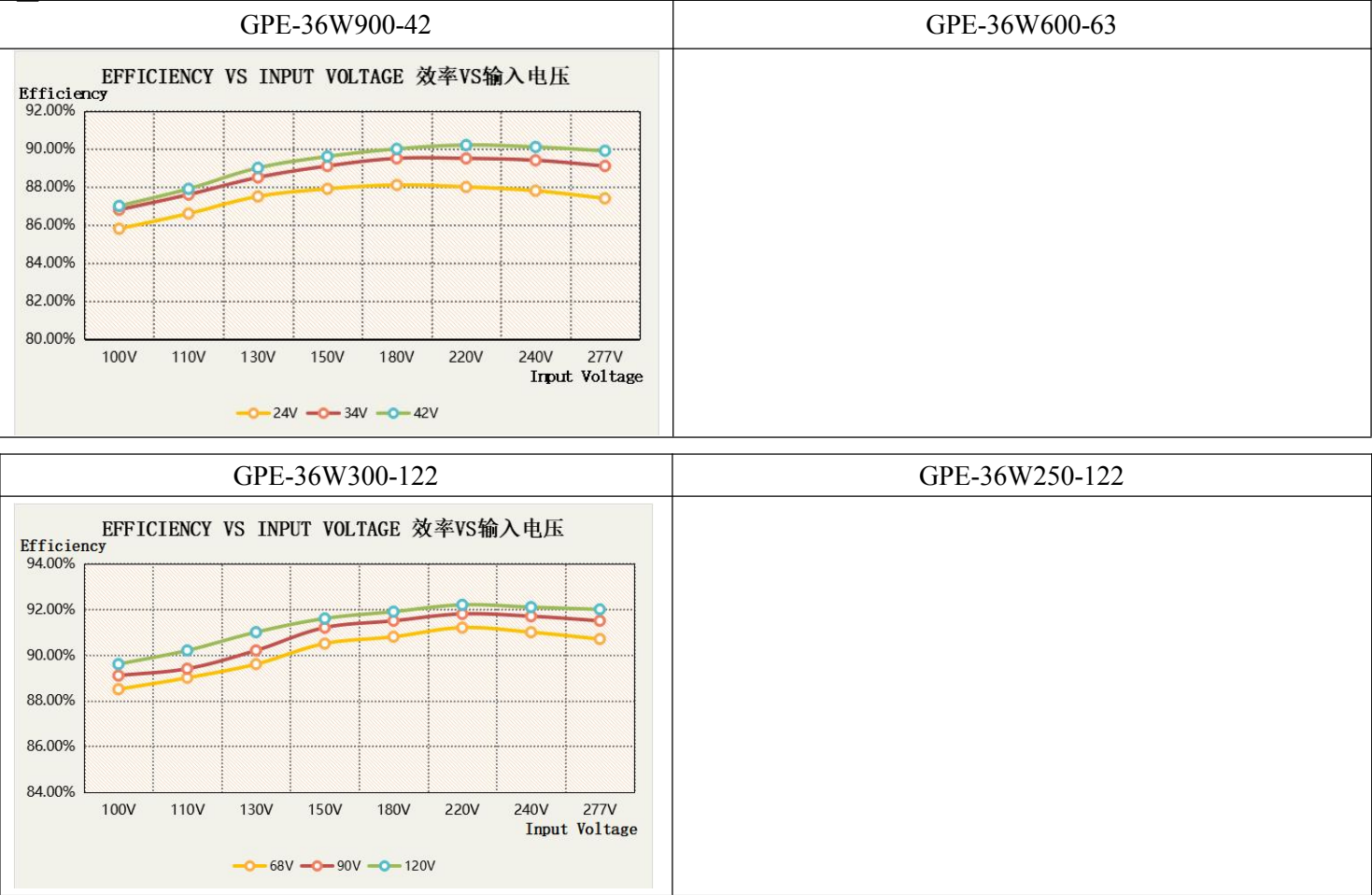


PF VS INPUT VOLTAGE

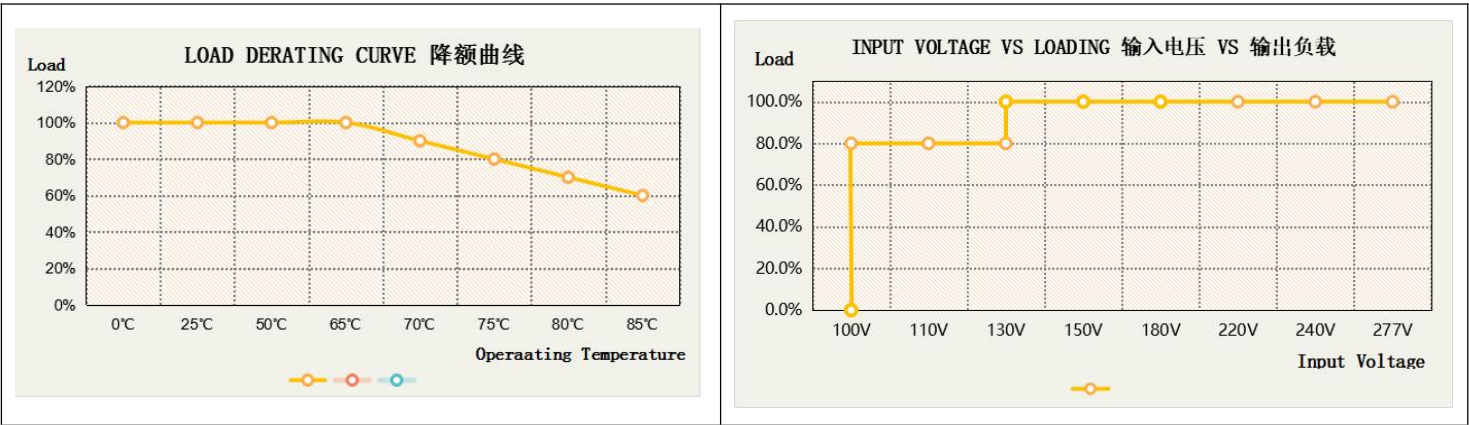


	Product Type	LED INTEGRATED SPECIAL DRIVER		
	Product Series	GPE-36W SERIES	REV	V2.0

EFFICIENCY VS INPUT VOLTAGE



LOAD DERATING CURVE INPUT VOLTAGE VS LOADING



SUNCOM	Product Type	LED INTEGRATED SPECIAL DRIVER		
	Product Series	GPE-36W SERIES	REV	V2.0

MECHANICAL SPECIFICATION & PACKING :

Bare Plate Dimension	73*27*20mm(L*W*H)
Final Dimension	102*32*24
Product Weight	145g

Case No.: 36W Unit: mm

黄绿色 : $\ominus$
蓝色 : N
棕色 : L

黑色 : V-
红色 : V+

Nameplate

Dimension: 80*20mm Style: sticker

GPE-36W900-42		GPE-36W600-63									
SUNCOM® GPE-36W900-42 <table border="1"> <tr> <td>INPUT</td><td>Input:100-277VAC 0.5A Max 50/60Hz $\eta \geq 89\%$ PF:≥ 0.95 ta:65°C tc:90°C</td><td>OUTPUT</td><td>Output:24-42VDC 900mA$\pm 5\%$ Rated Power: 36W</td></tr> </table> SELV IP65		INPUT	Input:100-277VAC 0.5A Max 50/60Hz $\eta \geq 89\%$ PF: ≥ 0.95 ta:65°C tc:90°C	OUTPUT	Output:24-42VDC 900mA $\pm 5\%$ Rated Power: 36W	SUNCOM® GPE-36W600-63 <table border="1"> <tr> <td>INPUT</td><td>Input:100-277VAC 0.5A Max 50/60Hz $\eta \geq 90\%$ PF:≥ 0.95 ta:65°C tc:90°C</td><td>OUTPUT</td><td>Output:34-63VDC 600mA$\pm 5\%$ Rated Power: 36W</td></tr> </table> SELV IP65		INPUT	Input:100-277VAC 0.5A Max 50/60Hz $\eta \geq 90\%$ PF: ≥ 0.95 ta:65°C tc:90°C	OUTPUT	Output:34-63VDC 600mA $\pm 5\%$ Rated Power: 36W
INPUT	Input:100-277VAC 0.5A Max 50/60Hz $\eta \geq 89\%$ PF: ≥ 0.95 ta:65°C tc:90°C	OUTPUT	Output:24-42VDC 900mA $\pm 5\%$ Rated Power: 36W								
INPUT	Input:100-277VAC 0.5A Max 50/60Hz $\eta \geq 90\%$ PF: ≥ 0.95 ta:65°C tc:90°C	OUTPUT	Output:34-63VDC 600mA $\pm 5\%$ Rated Power: 36W								
GPE-36W300-122		GPE-36W250-122									
SUNCOM® GPE-36W300-122 <table border="1"> <tr> <td>INPUT</td><td>Input:100-277VAC 0.5A Max 50/60Hz $\eta \geq 91\%$ PF:≥ 0.95 ta:65°C tc:90°C</td><td>OUTPUT</td><td>Output:68-122VDC 300mA$\pm 5\%$ Rated Power: 36W</td></tr> </table> SELV IP65		INPUT	Input:100-277VAC 0.5A Max 50/60Hz $\eta \geq 91\%$ PF: ≥ 0.95 ta:65°C tc:90°C	OUTPUT	Output:68-122VDC 300mA $\pm 5\%$ Rated Power: 36W	SUNCOM® GPE-36W250-122 <table border="1"> <tr> <td>INPUT</td><td>Input:100-277VAC 0.5A Max 50/60Hz $\eta \geq 91\%$ PF:≥ 0.95 ta:65°C tc:90°C</td><td>OUTPUT</td><td>Output:68-122VDC 250mA$\pm 5\%$ Rated Power: 36W</td></tr> </table> SELV IP65		INPUT	Input:100-277VAC 0.5A Max 50/60Hz $\eta \geq 91\%$ PF: ≥ 0.95 ta:65°C tc:90°C	OUTPUT	Output:68-122VDC 250mA $\pm 5\%$ Rated Power: 36W
INPUT	Input:100-277VAC 0.5A Max 50/60Hz $\eta \geq 91\%$ PF: ≥ 0.95 ta:65°C tc:90°C	OUTPUT	Output:68-122VDC 300mA $\pm 5\%$ Rated Power: 36W								
INPUT	Input:100-277VAC 0.5A Max 50/60Hz $\eta \geq 91\%$ PF: ≥ 0.95 ta:65°C tc:90°C	OUTPUT	Output:68-122VDC 250mA $\pm 5\%$ Rated Power: 36W								