

Model: GP-LS100P Series

■ Features

- Universal AC Input 90~305VAC.
- Constant Voltage / Constant Current Operation.
- Suitable for High Brightness Light-Emitting Diode Products.
- Built-in PFC Function.
- Protections: OVP / OCP / SCP / OTP.
- IP67 Design For Indoor or Outdoor Installations.
- Cooling by Free Air Convection.

■ Approvals

CE FCC cUL[®]US (except 15V,57V)

IP67 SELV EQUIVALENT

■ Size

222 x 68 x 39 mm (L x W x H)

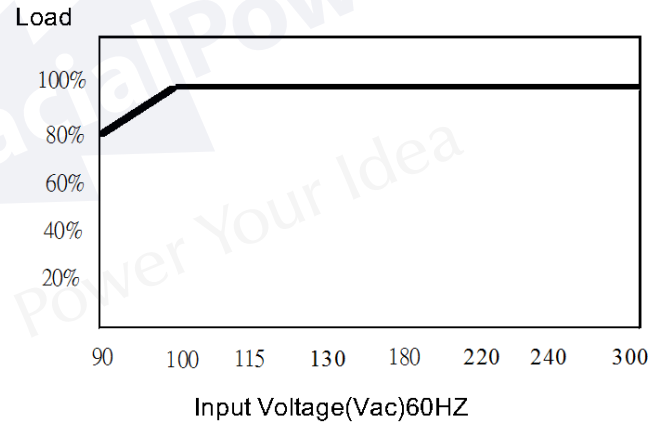
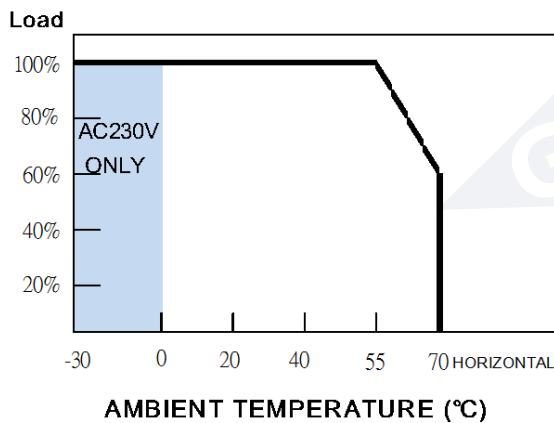


■ Specifications

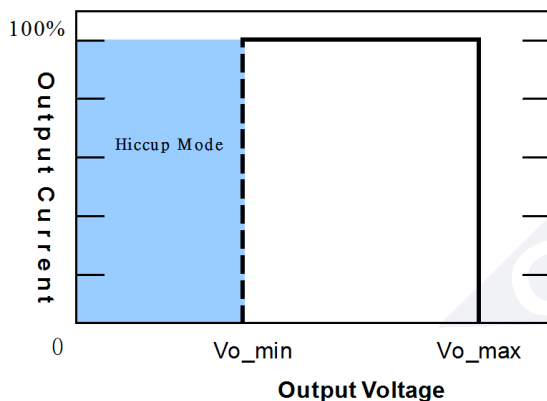
Model No.		GP-LS100P-12	GP-LS100P-15	GP-LS100P-24	GP-LS100P-30	GP-LS100P-36	GP-LS100P-48	GP-LS100P-57
Output	DC Voltage	12V	15V	24V	30V	36V	48V	57V
	Constant Current Region Note.4	9 ~ 12V	10 ~ 15V	14 ~ 24V	22 ~ 30V	26 ~ 36V	34 ~ 48V	43~57V
	Rated Current	8.3A	6.6A	4.2A	3.3A	2.8A	2.1A	1.75A
	Current Tolerance	± 5%						
	Rated Power	99.6W	99W	100.8W	99W	100.8W	100.8W	99.7W
	Ripple & Noise (Max.) Note.2	150mV	150mV	150mV	150mV	150mV	200mV	240mV
	Efficiency at 230V AC(Typ.)	88%	88%	90%	90%	90%	90.5%	90.5%
	Voltage Tolerance Note.3	-1%~5%	-1%~5%	-1%~5%	-1%~5%	-1%~5%	-1%~5%	-1%~5%
	Set up time Max.)	0.7s / 230VAC, 1.5s / 115VAC, at full load.						
Input	Voltage Range	90 ~ 305VAC / 127 ~ 430VDC						
	Frequency Range	47 Hz ~ 63 Hz						
	AC Current (Max.)	1.4A at 115VAC / 0.7A at 230VAC						
	Power Factor	>0.98 at 115VAC / >0.95 at 230VAC at full load. PF ≥ 0.9 at 75% load						
	Inrush Current (Max.)	COLD START 50A at 230VAC						
	Leakage Current	<0.75mA / 240VAC						
Protections	Over Current	95~105% rated current. Type: Auto-recovery after fault condition disappeared.						
	Short Circuit	Type: Hiccup mode & recovers after fault condition disappeared.						
	Over Voltage	13.5~17V	17~21V	28~34V	34~41V	41~49V	53~65V	63~76V
		Type: Latch mode (re-power on to recover).						
	Over Temperature	Tcase: 95°C ± 10°C Type: Shutdown mode (re-power on to recover).						

Environment	Operation Temp. Note.5	-30°C ~70°C (Refer to output load derating curve)
	Operation Humidity	20% ~ 90% RH non-condensing.
	Storage Temp.	-40 ~ +80°C
	Storage Humidity	10% ~ 90% RH
	Vibration	10~500 Hz, 2G 10 min./1 cycle, period for 60 min. each along X, Y, Z axes.
Safety & EMC	Safety Standards	UL8750 (except 15V/57V), EN61347-1,EN61347-2-13 ,independent;IP67 Approved.
	Withstand Voltage	I/P-O/P: 3.75KVAC I/P-FG:1.88KVAC O/P-FG:0.5KVAC
	Isolation Resistance	I/P-O/P,I/P-FG,O/P-FG:100M ohms / 500VDC at 25°C
	EMI Conduction & Radiation	Compliance to EN55015,FCC part 15
	Harmonic Current	Compliance to EN61000-3-2 Class C($\geq 75\%$ load),EN61000-3-3
	EMS Immunity	Compliance to EN61000-4-2,3,4,5,6,11;EN61547, Light industry level, criteria A
Others	MTBF	250K hours min. MIL-HDBK-217F(25°C)
	Dimension(L x W x H)	222 x 68 x 39mm; 1024g/pcs
Note	1. All specifications not specially mentioned are measured at 230VAC and 25°C ambient temperature. 2. Ripple & Noise are measured at 20MHz bandwidth by using a 12" twisted pair-wire terminated with 0.1uf & 47uf parallel capacitor. 3. Voltage Tolerance: includes line regulation, load regulation and set-up tolerance. 4. Constant current operation region is within 75%~100% rated output voltage. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design. 5. Please refer to derating curve.	

■ Derating Curve



■ Constant Voltage / Constant Current Curve



Note: The output current will return to 100% after the AC voltage is removed for a while and ON again.

■ Mechanical Specification

