

## Model: GP-LS150P 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



### ■ Size

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

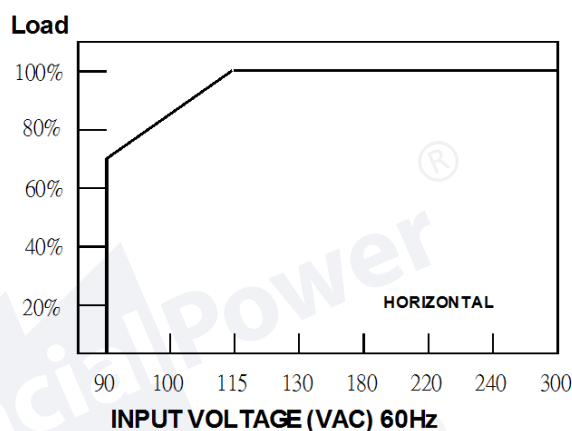
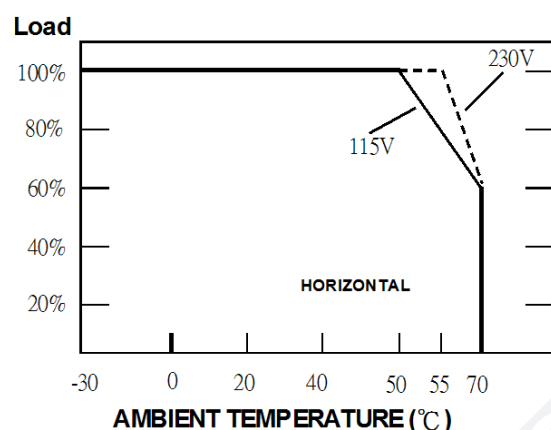


### ■ Specifications

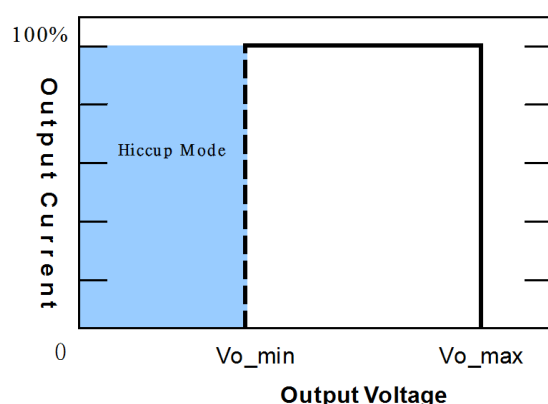
Model No.		GP-LS150P-12	GP-LS150P-15	GP-LS150P-24	GP-LS150P-30	GP-LS150P-36	GP-LS150P-48	GP-LS150P-54
Output	DC Voltage	12V	15V	24V	30V	36V	48V	54V
	Constant Current Region Note.4	9 ~ 12V	10 ~ 15V	14 ~ 24V	22 ~ 30V	26 ~ 36V	34 ~ 48V	38 ~ 54V
	Rated Current	11A	10A	6.3A	5A	4.2A	3.2A	2.8A
	Current Tolerance	± 5%						
	Rated Power	132W	150W	151.2W	150W	151.2W	153.6W	151.2W
	Ripple & Noise (Max.) Note.2	150mV	150mV	150mV	150mV	150mV	200mV	300mV
	Efficiency at 230VAC(Typ.)	88%	88%	90%	90%	90%	90%	90%
	Voltage Tolerance Note.3	-1%~5%	-1%~5%	-1%~5%	-1%~5%	-1%~5%	-1%~5%	-1%~5%
	Set up time (Max.)	0.8s / 230VAC, 1.0s / 115VAC, at full load.						
Input	Voltage Range	90 ~ 305VAC / 127 ~ 430VDC						
	Frequency Range	47 Hz ~ 63 Hz						
	AC Current (Max.)	2A at 115VAC / 1A 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 65A at 230VAC						
	Leakage Current	<0.5mA / 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	14~20V	17~23V	26~32V	33~41V	40~50V	52~60V	62~74V
	Over Temperature	Type: Latch mode (re-power on to recover).						
		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/54V),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	200K 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

