

Model: GP-LS150P Series

Approvals: IP67 CE FC cULus (except 15V,54V)

Features:

- * Universal AC input 90~305Vac.
- * Constant Voltage / Constant Current Operation.
- * Suitable for High Brightness Light-Emitting Diode products.
- * Built-in ACTIVE PFC Function.
- * Protections: OVP / OCP / SCP / OTP.
- * IP67 design for indoor or outdoor installations
- * Cooling by free air convection.
- * Optional Timer Dimming For Power Saving.

Size: 222 * 68 * 39 mm (L*W*H)



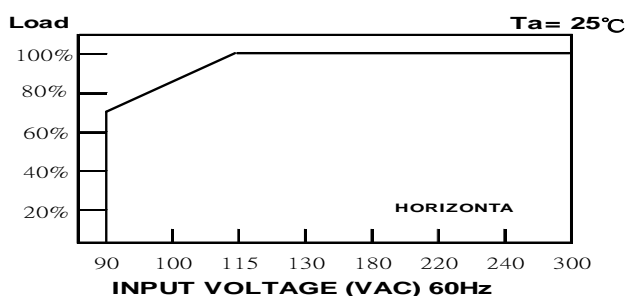
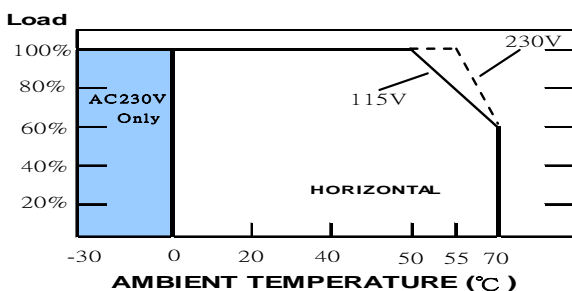
Specifications:

LS150P-xx(A) : xx for O/P Voltage, A for Timer Dimming

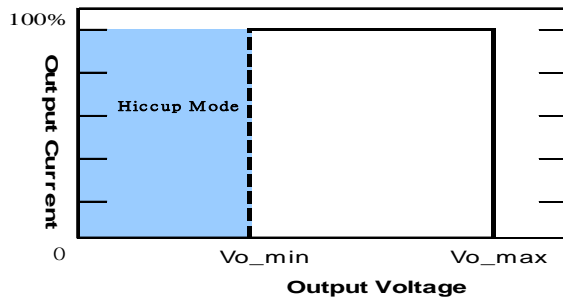
Model No.		LS150P-12(A)	LS150P-15(A)	LS150P-24(A)	LS150P-30(A)	LS150P-36(A)	LS150P-48(A)	LS150P-54(A)	
Output	DC Voltage	12V	15V	24V	30V	36V	48V	54V	
	Constant Current Region Note.4	9 ~ 12V	10 ~ 15V	14 ~ 24V	22 ~ 30V	26 ~ 36V	34 ~ 48V	38 ~ 54V	
	Rated Current	11A	10A	6.3A	5A	4.2A	3.2A	2.8A	
	Current Tolerance								+5%, -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%	90.0%	90.0%	
	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 115 Vac / >0.95 at 230Vac at full load. PF ≥0.9 at 75% load							
	Inrush Current (Max.)	COLD START 65A at 230 Vac							
	Leakage Current	<0.5mA / 240 Vac							
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),UL60950(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 (≥75% load),EN61000-3-3							
Others	EMS Immunity	Compliance to EN61000-4-2,3,4,5,6,11;EN61547, Light industry level,criteria A							
	MTBF	200K hours min. MIL-HDBK-217F(25°C)							
	Dimension(L*W*H)	222*68*39 mm							
	Packing(L*W*H)/Carton	548*275*141 mm							
Note	Weight	940g							
	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.									

Rev:X10

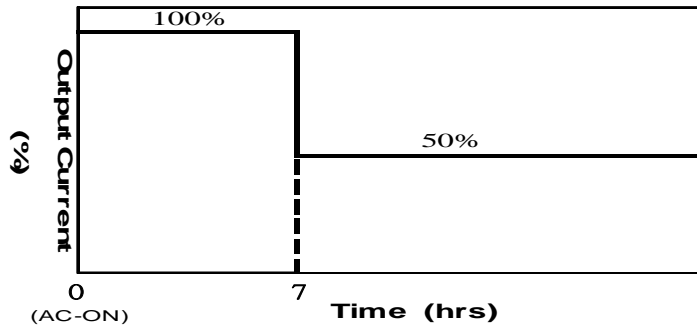
Derating Curve



Constant Voltage / Constant Current Curve



Timer Dimming



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

Mechanical Specification

