

Model: GP-LS100P Series

Approvals : IP67 CE FC C_{UL}US (except 15V,57V)

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)

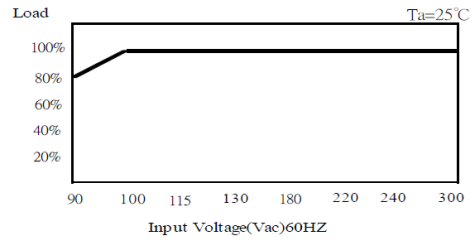
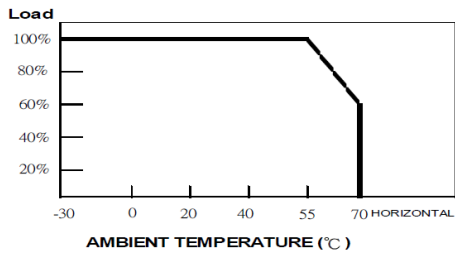


Specifications:

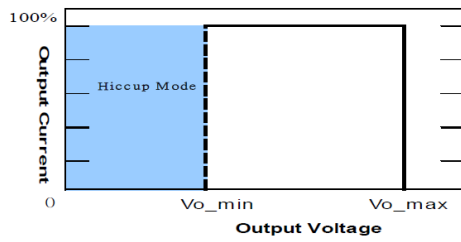
LS100P-xx(A) : xx for O/P Voltage, A for Timer Dimming

Model No.	LS100P-12(A)	LS100P-15(A)	LS100P-24(A)	LS100P-30(A)	LS100P-36(A)	LS100P-48(A)	LS100P-57(A)	
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%, -5%						
	Rated Power	99.6W	99W	100.8W	99W	100.8W	100.8W	99.75W
	Ripple&Noise(Max.) Note.2	150mV	150mV	150mV	150mV	150mV	200mV	240mV
	Efficiency at 230Vac(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 115 Vac / >0.95 at 230Vac at full load. PF ≥ 0.9 at 75% load						
	Inrush Current (Max.)	COLD START 50A at 230 Vac						
	Leakage Current	<0.75mA / 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	13.5~17V	17~21V	28~34V	34~41V	41~49V	53~65V	63~76V
	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),UL60950(except 15V/57V),EN61347-1,EN61347-2-13 ,independent;IP67 Approved.						
	Withstand Voltage	I/P-O/P: 3.75KVAC IP-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	250K 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						
	<p>1. All specifications not specially mentioned are measured at 230Vac and 25°C ambient temperature.</p> <p>2. Ripple & Noise are measured at 20MHz bandwidth by using a 12" twisted pair-wire terminated with 0.1uf & 47uf parallel capacitor.</p> <p>3. Voltage Tolerance: includes line regulation, load regulation and set-up tolerance.</p> <p>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.</p> <p>5. Please refer to derating curve.</p>							

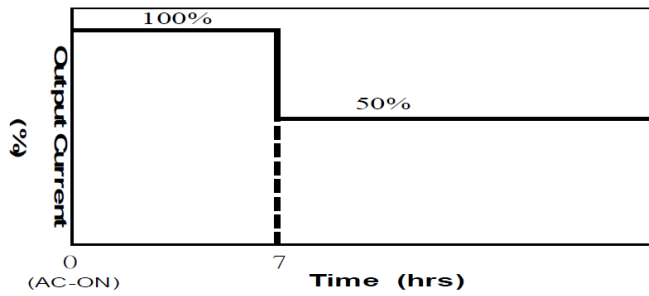
Derating Curve



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

