

Model: GP-LS150PH Dimming Series

Features

- Universal AC Input 90 ~ 305VAC.
- Constant Current Operation.
- High Efficiency up to 92%.
- High Output Voltage.
- Built-in PFC Function.
- Protection: OVP / SCP / OTP.
- IP67 Level Design for Indoor or Output Installations.
- Cooling by Free Air Convection.

Approvals



Size

226 * 68 * 39 mm (L*W*H)



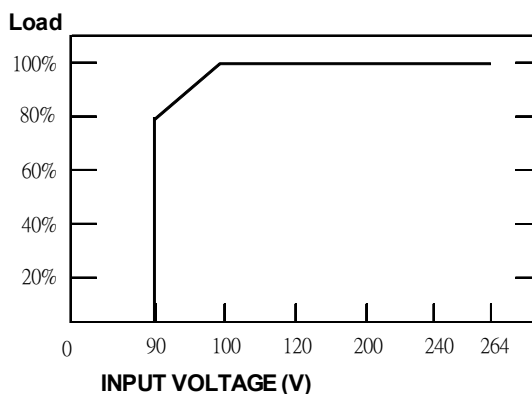
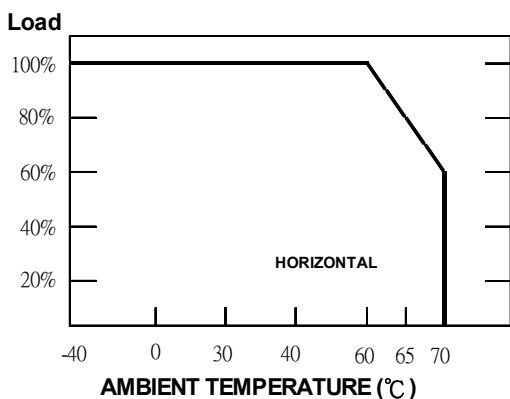
Specifications

A: dimming

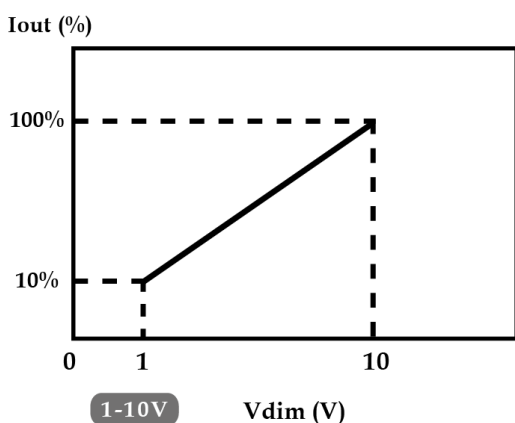
Model No.		GP-LS150PH-107CA	GP-LS150PH-143CA	GP-LS150PH-210CA	GP-LS150PH-428CA
Output	Rated Voltage	107V	143V	210V	428V
	DC Voltage Range Note.2	75 ~ 107V	90 ~ 143V	120 ~ 210V	250 ~ 428V
	Rated Current	1400mA	1050mA	700mA	350mA
	Current Tolerance	±5%			
	Rated Power	149.8W	150.1W	147W	149.8W
	Ripple & Noise (Max.) Note.3	1500mV	1500mV	2000mV	3000mV
	Efficiency at 240VAC (Typ.) Note.4	91%	92%	92%	92%
	Voltage Tolerance	±10%			
	Dimming Control	Puls:Hi=10V Low=0V, Duty:10%~100%, Fsw 0.5-3KHZ Analog Dimming Control: control by external voltage 1 ~ 10Vdc Resistance Dimming : 30K - 100KΩ			
Set up time (Max.)	3000ms at 120VAC / 2000ms at 240VAC at full load.				
Input	Nominal Voltage	100 ~ 277VAC			
	Voltage Range	90 ~ 305VAC			
	Frequency Range	47 Hz ~ 63 Hz			
	AC Current (Max.)	2A at 120VAC / 1A at 240VAC			
	Power Factor	≥ 0.98 at 120VAC / ≥ 0.95 at 240VAC at full load, PF ≥ 0.9 at 75% load at 240VAC			
	Inrush Current (Max.)	COLD START 75A at 240VAC			
	Leakage Current	<0.75mA at 230VAC/50Hz			
Protections	Over Voltage	105 ~ 130% rated voltage. Type: Latch mode (re-power on to recover).			
	Short Circuit	Type: Constant current limit and recovers after latch mode fault condition is removed.			
	Over Temperature	Type: TC: 110°C ± 10°C Latch mode output voltage & recovers after fault condition removed.			
Environment	Operation Temp.	-40°C ~ 60°C at Full Load(Refer to output load derating curve)			
	Operation Humidity	20% ~ 90% RH non-condensing.			
	Storage Temp.	-40 ~ +80°C			
	Storage Humidity	10% ~ 95% RH			
	Vibration	10~500 Hz, 2G 10 min./1 cycle, period for 60 min. each along X, Y, Z axes.			

Safety & EMC	Safety Standards	Meet UL8750, EN61347-1, EN61347-2-13, 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 Class B
	Harmonic Current	Compliance to EN61000-3-2 Class C, EN61000-3-3
	EMS Immunity	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11
Others	MTBF	300K hours min. MIL-HDBK-217F (25°C)
	Dimension (L x W x H)	226 x 68 x 39mm; 1082g/pcs
Note	1. All specifications not specially mentioned are measured at 230VAC and 25°C ambient temperature. 2. The range is for constant current application. 3. Ripple & Noise are measured at 20MHz bandwidth by using a 12" twisted pair-wire terminated with 0.1uf & 47uf parallel capacitor. 4. Efficiency can be measured Max. Efficiency after 10 mins burn-in.	

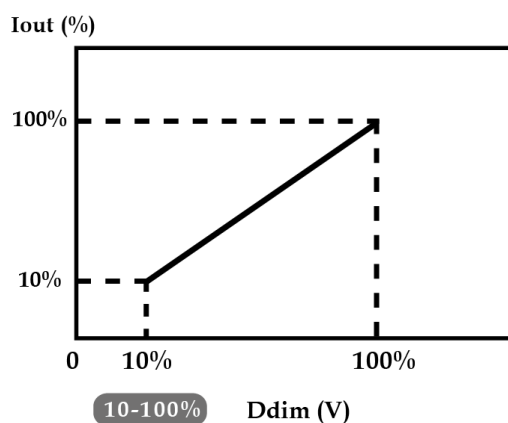
Derating Curve



DC Voltage Dimming Curve



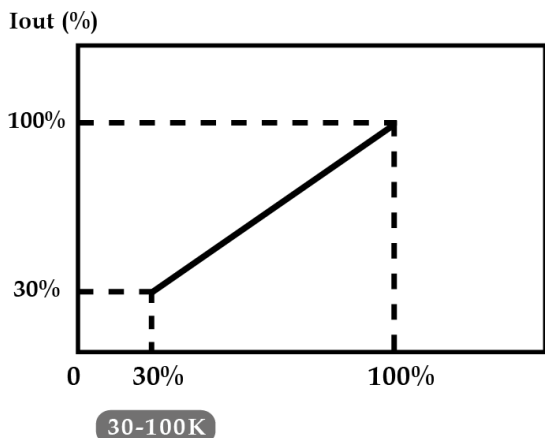
PWM Dimming Curve



Note: if need to control two or more drivers, please use a potentiometer.

Pule: Hi=10V, Low=0V
Frequency: 500~3KHz

Resistance Dimming Curve



Mechanical Specification

