

## Model: GP-LS10P-xxA Series 12 Watts single output

### ■ Features

- Universal AC Input 90~264VAC.
- Constant Current Limiting Design.
- For High Brightness Light-Emitting Diode Products.
- Fully Isolated Plastic Case.
- Operation from -20°C ~70°C Full Load.
- Protections: OVP/OLP/SCP.
- Class II Power Design Without Earth Pin.
- Fully Insulated Case with IP67 Level.
- Dimming Control by External Voltage of PWM or Analog.
- Cooling by Free Air Convection.
- Meet UL1310 Standard.

### ■ Approvals



SELV

### ■ Size

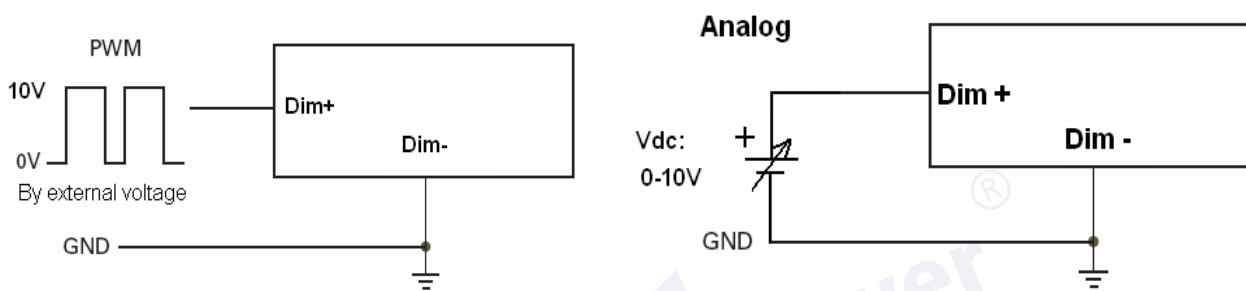
108 x 30.4 x 26 mm (L x W x H)



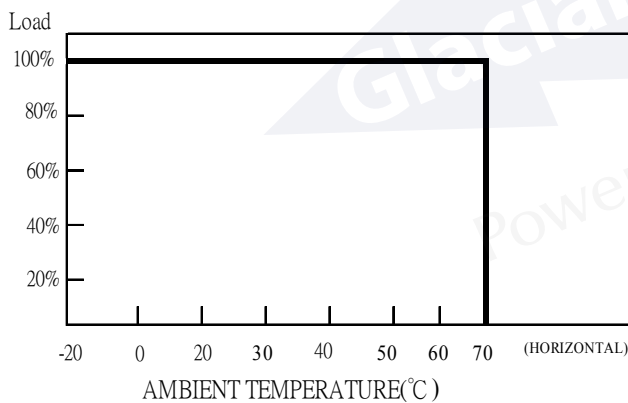
### ■ Specifications

Model No.		GP-LS10P-35A	GP-LS10P-17A
Output	LED Operation Voltage	4~35V	4~17V
	Rated Current Range	340mA±10%	680mA±10%
	Rated Max. Power	12W	12W
	Efficiency (Typ.)	80%	80%
	PWM Dimming and Remote ON/OFF Control	0V<Vadj<10V(100HZ-3K HZ ) Figure 1. Open: DC OUT OFF, 0V: DC OUT OFF	
	Analog Dimming Control	control by external voltage 0~10VDC (for 0%~100% Dimming)	
	Set up Time	0.5s/230VAC; 1s/115VAC at full load	
	Rise Time	<250ms at full load	
Input	Voltage Range	90V AC ~ 264VAC or 127VAC ~ 370VDC	
	Frequency Range	47 Hz ~ 63 Hz	
	Power Factor Correction	≥ 0.9/115VAC at Full Load	
	AC Current	0.2A at 115VAC / 0.1A at 230VAC	
	Inrush Current	11A at 115VAC / 15A at 230VAC	
	Leakage Current	<0.25mA / 240V-AC	
Protections	Over Load	100~135% rated output power recovers automatically after fault condition has been removed.	
	Short Circuit	Type: by constant current mode. Recovers automatically after fault condition is removed.	
	Over Voltage	41~48V	23~27V
Environment	Operation Temp.	-20°C ~70°C full load.	
	Operation Humidity	20% ~ 95% 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	EN61347-1, EN61347-2-13, IP67 Approved. meet UL1310 standard.
	Withstand Voltage	meet I/P - O/P: 3.75KVAC
	Isolation Resistance	meet >100M ohms / 500VDC at 25°C.
	EMI Conduction & Radiation	meet EN55015 , FCC part 18 / class B,
	Harmonic Current	Compliance to EN61000-3-2 Class C,EN61000-3-3
	EMS Immunity	meet EN61547, EN61000-4-2, 3, 4, 5, 6, 8, 11
Others	MTBF	400K hours min.MIL-HDBK-217F(25°C)
	Dimension(L x W x H)	108 x 30.4 x 26mm; 118.5g/pcs
Remark	<p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C ambient temperature.</p> <p>2. Constant current operation region is within the specified output voltage range above. This is the suitable operation region for LED related applications.</p> <p>3. The power supply is considered a component which will be installed a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.</p>	



■ **Derating Curve**



■ **Mechanical Specification**

