

Model: GP-LS70PH / GP-LS100PH Series

■ Features

- Universal AC input 90 ~ 305VAC.
- High Efficiency up to 91%.
- High Output Voltage.
- Constant Current Operation.
- Built-in PFC Function.
- Protection: OVP / SCP / OTP.
- Cooling by Free Air Convection.
- Compact Size.
- IP67 Design.

■ Approvals



■ Size

198 x 57 x 37 mm (L x W x H)

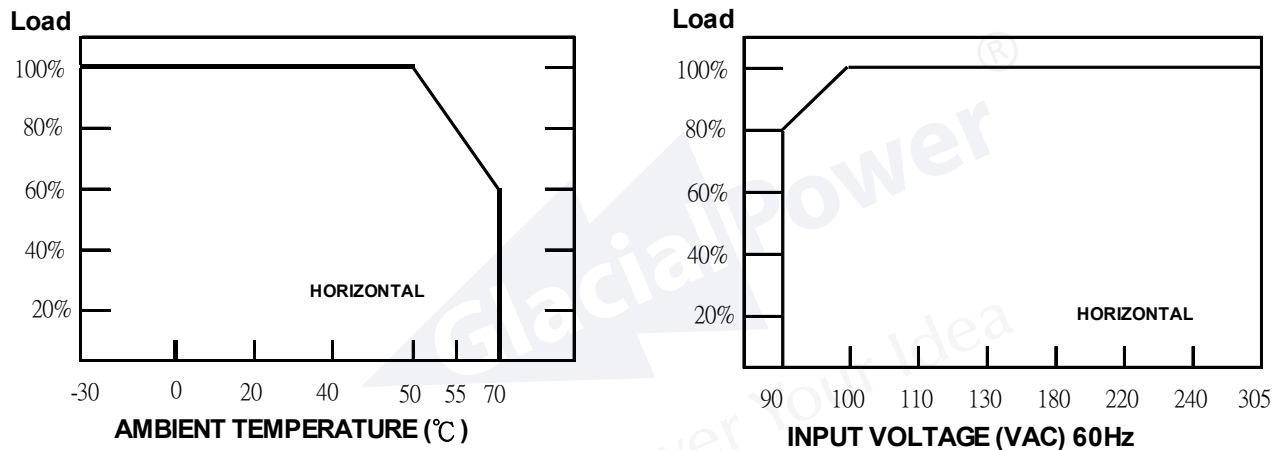


■ Specifications

Model No.		GP-LS70PH-100C	GP-LS100PH-142C	GP-LS100PH-71C
Output	Rated Voltage	100V	142V	71V
	Constant Current Region Note.4	50 ~ 100V	100 ~ 142V	50 ~ 71V
	Rated Current	700mA	700mA	1400mA
	Current Tolerance	± 5%		
	Rated Power	70W	99.4W	99.4W
	Ripple & Noise (Max.) Note.2	700mV	1000mV	500mV
	Efficiency at 240V AC(Typ.)	90%	91%	91%
	Set-up Voltage Note.3	-1% ~ 5%		
Set up time (Max.)		2000ms / 240VAC at full load.		
Input	Nominal Voltage	100 ~ 277VAC		
	Voltage Range	90 ~ 305VAC / 127 ~ 431VDC		
	Frequency Range	47 Hz ~ 63 Hz		
	AC Current (Max.)	1.2A at 120VAC / 0.6A at 240VAC		
	Power Factor	≥ 0.98 at 120VAC / ≥ 0.94 at 240VAC at full load, PF ≥ 0.9 at 70% load		
	Inrush Current (Max.)	COLD START 50A at 240VAC		
	Leakage Current	<0.75mA / 230VAC		
Protections	Over Voltage	110 ~ 140% rated voltage. Type: Shutdown mode (re-power on to recover).		
	Short Circuit	Type: Hiccup mode & recovers after fault condition disappeared.		
	Over Temperature	T_RT2: 100°C±10°C Type: Shutdown mode (re-power on to recover).		
Environment	Operation Temp.	-30°C ~ 50°C (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	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, 11; EN61547
Others	MTBF	200K hours min. MIL-HDBK-217F (25°C)
	Dimension(L x W x H)	198 x 57 x 37mm; 763.6g/pcs
Note	1. All specifications not specially mentioned are measured at 240VAC and 25°C ambient temperature. 2. Ripple & Noise are measured at 20MHz bandwidth by using a 12" twisted pair-wire terminated with 0.1uF ceramic cap. parallel capacitor. 3. Set-up Voltage: this shall be tested at no load condition. 4. This is the suitable operation region for LED related applications; please reconfirm special electrical requirements for some specific system design. 5. This LED Driver shall be installed inside an electrical enclosure.	

■ Derating Curve



■ Mechanical Specification

