

## Model: GP-LS35P Series (Constant Current +Dimming Function)

### Features

- Universal AC Input 90~264VAC.
- Constant Current Operation.
- Class 2 Power Supply Unit.
- Withstand 277VAC Surge Input for 10 Sec.
- Built-in PFC Function.
- Protections: OVP / OCP / SCP / OTP.
- Fully Insulated Case with IP67 Level.
- Cooling by Free Air Convection.
- Optional Dimming Type: PWM/ DC.(Only 42A)

### Approvals



### Size

163 \* 44.2 \* 32.5 mm(L\*W\*H)



42A

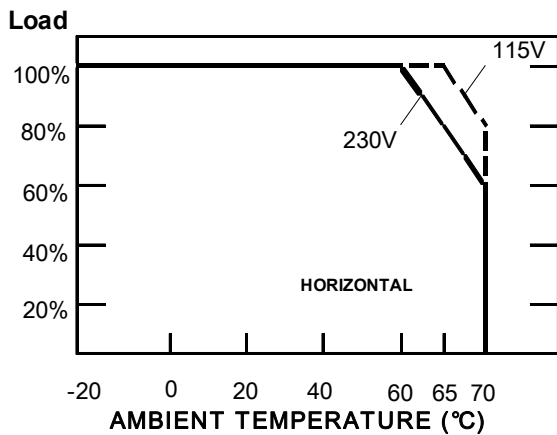
### Specifications

A : Dimming function.

Model No.	GP-LS35P-12	GP-LS35P-24	GP-LS35P-30	GP-LS35P-48	GP-LS35P-42A	
Output	Rated Voltage	12V	24V	30V	48V	42V
	DC Voltage Range	7 ~ 12V	14 ~ 24V	5 ~ 30V	5 ~ 48V	5 ~ 42V
	Rated Current	2500mA	1250mA	1050mA	700mA	700mA
	Current Tolerance	± 10%				
	Max. Power	30W	30W	31.5W	33.6W	29.4W
	Ripple & Noise (Max.)	3Vp-p	3Vp-p	3Vp-p	4Vp-p	4Vp-p
	Efficiency at 115VAC (Typ.)	82%	84%	85%	86%	84%
	Dimming Control	NO	NO	NO	NO	YES
	Voltage Tolerance	± 5%				
	Set up time (Max.)	1 sec. / 230VAC, 2 sec. / 115VAC, at full load.				
Input	Voltage Range	90 ~ 264VAC or 127 ~ 370VDC				
	Frequency Range	47 Hz ~ 63 Hz				
	AC Current (Max.)	0.4A at 115VAC/ 0.25A at 230VAC				
	Power Factor	>0.95 at 115VAC / >0.85 at 230VAC with full load.				
	Inrush Current (Max.)	60A at 230VAC				
	Leakage Current	<0.5mA / 240VAC				
Protections	Short Circuit	Type: Hiccup and recovers after fault condition disappeared.				
	Over Voltage	16 ~ 23	28 ~ 35	35 ~ 42V	52 ~ 60V	48 ~ 53V
	Over Temperature	Tcase: 95°C ±10%				
		Type: Auto-recovery Mode.				

Environment	Operation Temp.	-20°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	meet UL1310 standard, EN61347-1,EN61347-2-13 ,IP67 Approved.
	Withstand Voltage	I/P - O/P: 3.75KVAC
	Isolation Resistance	I/P-O/P:100M ohms / 500VDC at 25°C
	EMI Conduction & Radiation	Compliance to EN55015
	Harmonic Current	Compliance to EN61000-3-2 Class C,EN61000-3-3
	EMS Immunity	Compliance to EN61547,EN61000-4-2,3,4,5,6,11
Others	MTBF	200K hours min. MIL-HDBK-217F(25°C)
	Dimension(L x W x H)	163 x 44.2 x 32.5mm; 371g/pcs
Note	<ol style="list-style-type: none"> <li>1. This range is defined for constant current operation.</li> <li>2. Ripple &amp; Noise are measured at 20MHz bandwidth with 0.1uf ceramic &amp; 47uf electrolytic capacitors in parallel.</li> <li>3. Voltage Tolerance: includes line regulation, load regulation and set-up tolerance.</li> <li>4. All specifications not specially mentioned are measured at 115VAC and 25°C ambient temperature.</li> </ol>	

### Derating Curve

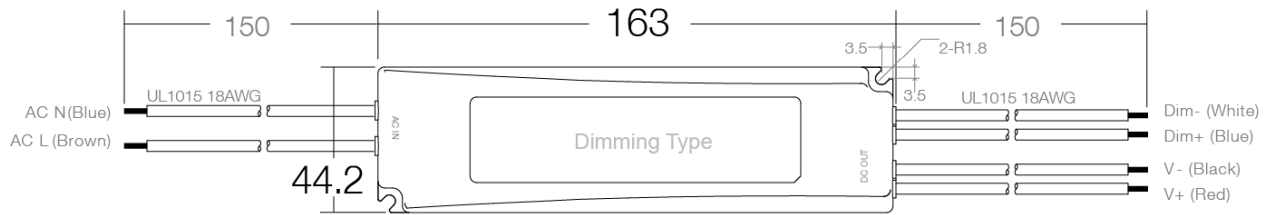
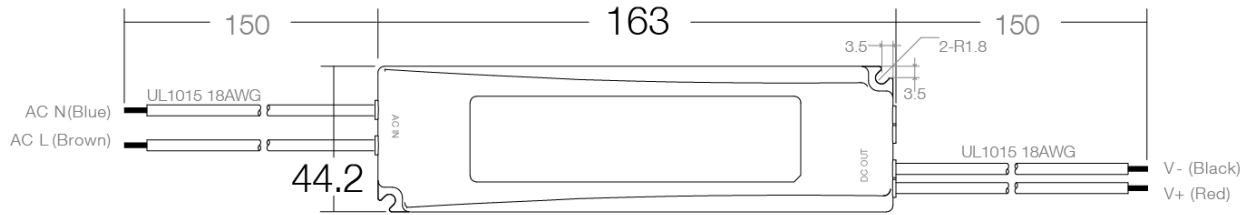


### Dimming Control



DC Dimming : 0-10V  
 PWM Dimming :  
 Puls : Hi=10V Low=0V  
 Duty : 10-100% Fsw 0.2-2KHz  
**Output OFF When No Connection**

### Mechanical Specification



UNIT:mm