

Model: GP-HS60P-42CA2

■ Features

- Universal AC Input 90 ~ 305VAC.
- Constant Current Operation.
- Suitable for High Brightness LED products.
- Built-in Active PFC Function.
- Protections: OVP / OCP / SCP / OTP.
- Built-in 3-in-1 Dimming Function.
- Class II/2 Power.
- IP67 Class.
- THD < 20% at 230VAC.
- Meet Application for ErP EU_1194_2012,Stage 3.
- No Load Consumption < 0.5W.
- Set up Time < 0.5 Sec at 230VAC.

■ Approvals



■ Size

163 x 44.2 x 32.5 mm (L x W x H)



■ Specifications

Model No.		GP-HS60P-42CA2						
	DC Voltage	42V						
	Constant Current Region (Note4)	28 ~ 42V						
	Rated Current	1.2A						
	Current Tolerance	± 5%						
	Rated Power	50.4W						
0	Ripple & Noise (Max.)	250mV						
Output	Efficiency at 240VAC(Typ.)	87%						
	Voltage Tolerance	-1% ~ +5%						
	DC Dimming	DC 0-10V or Electronic Potentiometer 0-10V						
	PWM Dimming	Puls:Hi=10V Low=0V, Duty: 0%~100%, Fsw 0.5-3KHz						
	Resistance Dimming	0ΚΩ~100ΚΩ						
	Set up time (Max.)	< 0.5 Sec / 230Vac / full load						
	No Load Consumption (Max.)	< 0.5W at 230VAC						
	Voltage Range	90 ~ 305VAC						
Input	Rated Voltage	100 ~ 240VAC / 277VAC (for North America Only)						
	Frequency Range	47 Hz ~ 63 Hz						
	AC Current (Max.)	0.8A at 100~240VAC/ 0.4A at 277VAC (for North American Only)						
	Power Factor	\geq 0.98 at 120VAC / \geq 0.94 at 240VAC/ \geq 0.92 at 277VAC, at full load						
	Inrush Current (Max.)	Cold Start 70A at 240VAC						
	Leakage Current	<0.5mA / 240VAC						
	Over Current	95 ~ 105% rated current. Type: Auto-recovery after fault condition disappeared.						
	Short Circuit	Type: Hiccup and recovers after fault condition disappeared.						
Protections	Over Voltage	46.2~54.6V						
		Type: Latch mode (Re-power on to recover).						
	Over Temperature	RT2: 105 ± 10°C						
		Type: Latch mode (Re-power on to recover).						













	Operation Temp.	-30°C ~50°C (Refer derating curve)							
	Operation Humidity	20% ~ 90% RH non-condensing.							
Environment	Storage Temp.	-40 ~ +60°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 Standards	EN61347-1, EN61347-2-13 , Independent; IP67 Approved.							
	Withstand Voltage	I/P - O/P: 3750VAC							
Cofot: 8 FMC	Isolation Resistance	I/P-O/P:100M ohms / 500VDC at 25°C							
Safety & EMC	EMI Conduction & Radiation	Compliance to EN55015,FCC part 15							
	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)							
Others	Dimension(L x W x H)	163 x 44.2 x 32.5mm; 371g/pcs							
	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 &								
	10uf parallel capacitor.								
Note	3. Voltage Tolerance: includes line regulation, load regulation and set-up tolerance.								
	4. Constant current operation region is the suitable operation region for LED related applications, but please								
	reconfirms special electrical requirements for some specific system design.								
	5. Please refer to derating curve.								

■ 3-in-1 Dimming Control (DC/ PWM/ Resistance)

3-in-1 Dimmable Function Description

(1) 0-100KΩ Resistance Dimmable (Typical):

Resistor	Single-driver	Short	10K	20K	30K	40K	50K	60K	70K	80K	90K	100K
	Multi-driver	Short/N	10K/N	20K/N	30K/N	40K/N	50K/N	60K/N	70K/N	80K/N	90K/N	100K/N
lout (%)		0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%

- The length of extended wire for DIM+/- shall not exceed 20 meters. (Wire ≤ 20m)
- % N=The number of dimmer drivers should not exceed 15.(N≤15)
- DIM+/- <7K or 7K/N lout 0%
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(2)DC: 0-10V Dimmable (Typical):

DIM(Voltage)	0V	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V
lout (%)	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
(3)10V / PWM Dimmable (Typical):											

[※] DIM+/- <0.7V lout 0%
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(3)10V / PWM Dimmable (Typical):

DIM(10V/PWM Duty)	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
lout (%)	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
※ DIM+/- <7% lout 0%											

M DIM+/- <7% lout 0%</p>









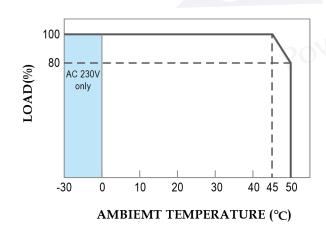


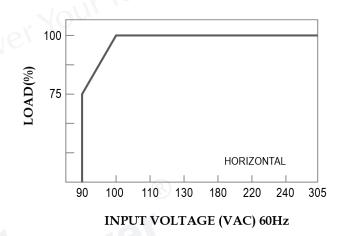


■ 3-in-1 Dimming Control



■ Derating Curve





■ Mechanical Specification

