Model: GP-HS10P 3-in-1 Dimming (9~12 Watts single output)

■ Features

- Universal AC Input 90~264VAC.
- Constant Current Design.
- For High Brightness Light-Emitting Diode Products.
- Fully Isolated Plastic Case.
- Built-in 3-in-1 Dimming Design.
- Operation from -20°C ~60°C Full Load.
- Protections: OTP / SCP.
- Class II Power Design Without Earth Pin.
- IP67 Class.

Approvals

CEFCIP67SELV



Size

110 * 35 * 25 mm (L*W*H)



Specifications

GP-HS10P-xxCA (xx: for Output Voltage; C: mean that Constant Current Mode; A: Dimming)

Model No.		GP-HS10P-12CA GP-HS10P-24CA GP-HS10P-24CA2 GP-HS10P-36CA2 GP-											
	DC Voltage	12V	24V	24V	36V	48V							
	Rated Current Range	1000mA	500mA	350mA	350mA	250mA							
	Rated Max. Power	12W	12W	9.5W	12.6W	12W							
	Efficiency	79%	81%	81%									
Output	DC Voltage Range	8 ~ 12V	14 ~ 24V	14 ~ 27V	20 ~ 36V	26 ~ 48V							
Output	Current Tolerance	±5%	±5%	±5%	±5%	±5%							
	DC Dimming	DC 1-10V or Electronic Potentiometer 1-10V											
	PWM Dimming	Puls:Hi=10V Low=0V, Duty:0%~100%, Fsw 0.5-3KHZ											
	Resistance Dimming	10ΚΩ~100ΚΩ											
	Set up Time (Max)	<2000ms at full load											
	Rated Voltage	100 ~ 240VAC 141 ~ 340VDC											
	Voltage Range	90VAC ~ 264VAC											
	Frequency Range	47 Hz ~ 63 Hz											
Input	Power Factor Correction	\geqq 0.88 at 120VAC , \geqq 0.8 at 240VAC											
	AC Current	0.25A at 120VAC , 0.13A at 240VAC											
	Inrush Current	11A at 115VAC , 15A at 230VAC											
	Leakage Current	<0.25mA at 230VAC											
Dunt nations	Over Temperature	Tc : 95°C ±10°C; Type : Hiccup Mode											
Protections	Short Circuit	Type : Hiccup Mode											
	Operation Temp.	-20°C ~50°C full load. (Refer to output load derating curve)											
	Operation Humidity	20% ~ 95% RH non-condensing.											
Environment	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.											





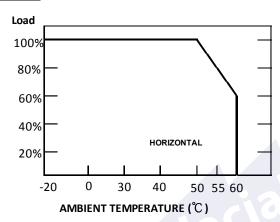






Safety & EMC	Safety Standards	meet EN61347-1,EN61347-2-13					
	Withstand Voltage	I/P - O/P: 3.75 KVAC					
	Isolation Resistance	I/P-O/P : 100m ohms / 500VDC at 25°C.					
Surety & Livie	EMI Conduction & Radiation	meet EN55015					
	EMS Immunity	meet EN61000-4-2, 3, 4, 5, 6, 8, 11					
Othors	MTBF	200K hours min.MIL-HDBK-217F(25°C)					
Others	Dimension(L x W x H)	110 x 35 x 25mm; 132.2g/pcs					
Note	 All parameters NOT specially mentioned are measured at 240VAC input, rated load and 25°C ambient temperatu Ripple & noise are measured at 20MHZ bandwidth oscilloscope and with 0.1uf & 47uf parallel capacitor. The power supply is considered a component which will be installed a final equipment. The final equipment mus re-confirmed that it still meets EMC directives. 						

■ Derating Curve



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

3-in-1 Dimmable Function Description

(1) 10-100KΩ Resistance Dimmable (Typical):

	AMBIENT TEMPERATURE (℃)											
■ 3-in-1 Dimming Control (DC/ PWM/ Resistance)												
3-in-1 Din	3-in-1 Dimmable Function Description											
(1) 10-100	(1) 10-100KΩ Resistance Dimmable (Typical):											
Dosistor	Single-driver	10K	20K	30K	40K	50K	60K	70K	80K	90K	100K	
Resistor Multi-driver 10K/N 20K/N 30K/N 40K/N 50K/N 60K/N 70K/N 80K/N 90K/N 1									100K/N			
lo	lout (%) 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)

(2)DC: 1-10V Dimmable (Typical):

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

(3)10V / PWM Dimmable (Typical):

DIM(10V/PWM Duty)	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
lout (%)	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%













■ Mechanical Specification

