Model: GP-CVP060P-xxV-P03 Series

■ Features

- Universal AC Input Range 90 ~ 305VAC.
- Constant Voltage mode.
- Active PFC design.
- Protections: OVP / OCP / SCP
- High Efficiency up to 91.5 %
- Fully Insulated Plastic Case.
- Meet application for ErP (EU) 2019/2020
- No-load power consumption < 0.5W at 230VAC
- Set up time < 0.5S at 230VAC.
- Suitable for commercial and residential lighting, LED signage, furniture lighting, and smart lighting control systems.
- Surge protection :2KV (Line-Line)

■ Approvals

CE SELV IP66

■ Size

114.5 x 35 x 29mm (L x W x H)

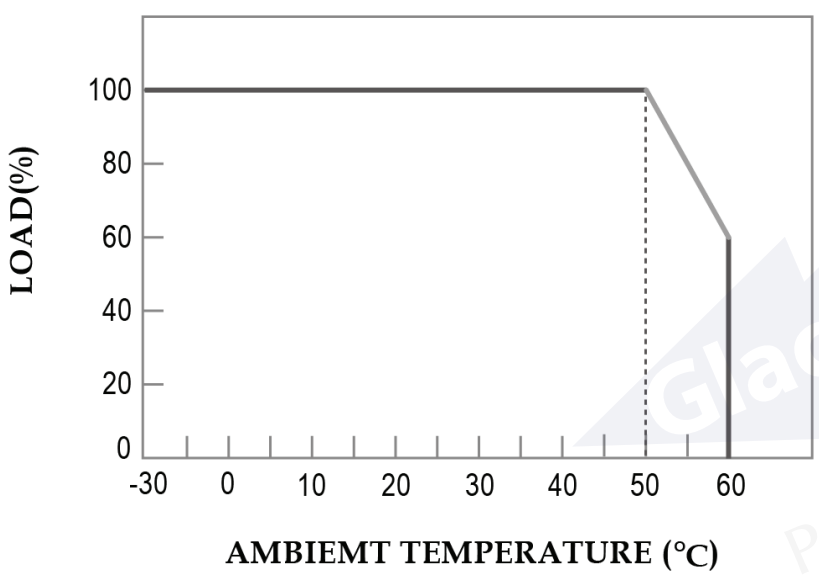
Note: GP-CVP060P-xxV-P03: xx=12, 24, 48

■ Specifications

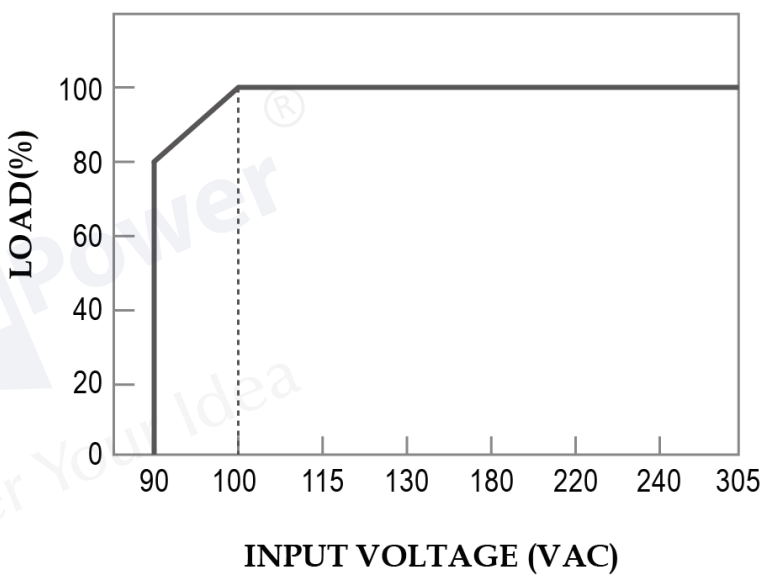
Model No.		GP-CVP060P-12V-P03	GP-CVP060P-24V-P03	GP-CVP060P-48V-P03
Output	DC Voltage	12V	24V	48V
	Rated Current	0~5A	0~2.5A	0~1.25A
	Rated Power	60W	60W	60W
	Ripple &Noise (Max.) Note.2	200mV	200mV	200mV
	Efficiency at 230VAC (Typ.)	90%	91.5%	91%
	Voltage Tolerance Note.3	± 5%	± 5%	± 5%
	Set up time (Max.)	≦0.5S at 230VAC, full load.		
Input	Rated Voltage	100 ~ 277VAC 141~380VDC		
	Voltage Range	90 ~ 305VAC		
	Frequency Range	47 Hz ~ 63 Hz		
	AC Current (Max.)	0.68A at 115VAC / 0.34A at 230VAC		
	Power Factor	>0.98 at 115VAC / >0.95 at 230VAC, full load.		
	Total Harmonic Distortion	THD < 15% at 230VAC, full load		
	Inrush Current (Typ.)	Cold Start 40A (Td=380us measured at 50% Ipeak) at 230VAC		
	Max. Number of PSUs on Circuit Breaker	B type : 5 units (10A) / 8 units (16A) / 12 units (25A), C type : 8 units (10A) / 13 units (16A) / 20 units (25A), D type : 18 units (16A) / 29 units (25A) at 230VAC		
	Leakage Current	<1mA at 240VAC		
	No-load power consumption	< 0.5W at 230VAC (0.45W Typ.)		

Protections	Over Current	105%~150%	105%~150%	105%~150%
		Type:Constant current limiting (Auto recovery after fault condition disappeared)		
	Short Circuit	Type: Hiccup mode (Auto recover after fault condition disappeared).		
	Over Voltage	13.2V~18V	26.4V~36V	52.8V~72V
		Type: Hiccup mode (Auto recover after fault condition disappeared).		
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% ~ 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	EN61347-1, EN61347-2-13.		
	Withstand Voltage	I/P-O/P: 3.75KVAC		
	Isolation Resistance	I/P-O/P :100M ohms / 500V DC at 25°C		
	EMI Conduction & Radiation	Compliance to EN55015		
	Harmonic Current	Compliance to EN61000-3-2 Class C (100% load), EN61000-3-3		
	EMS Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, criteria B ; Surge immunity: 2KV (L-N)		
Others	MTBF	100K hours min. MIL-HDBK-217F(25°C)		
	Dimension(L x W x H)	114.5 x 35 x 29mm; 213g/pcs		
Note	1. All specifications not specially mentioned are measured at 230VAC full load and 25°C ambient temperature. 2. Ripple & Noise are measured at 20MHz bandwidth by using a 12" twisted pair-wire terminated with 0.1uf & 47uf parallel capacitor. 3. Voltage Tolerance: includes line regulation, load regulation and set-up tolerance. 4. 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.			

■ Derating Curve (Load vs Temperature)

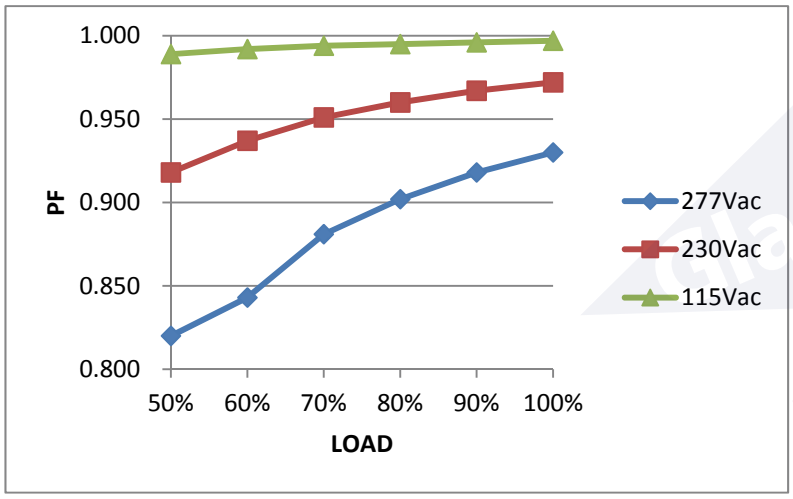


■ Static Characteristics



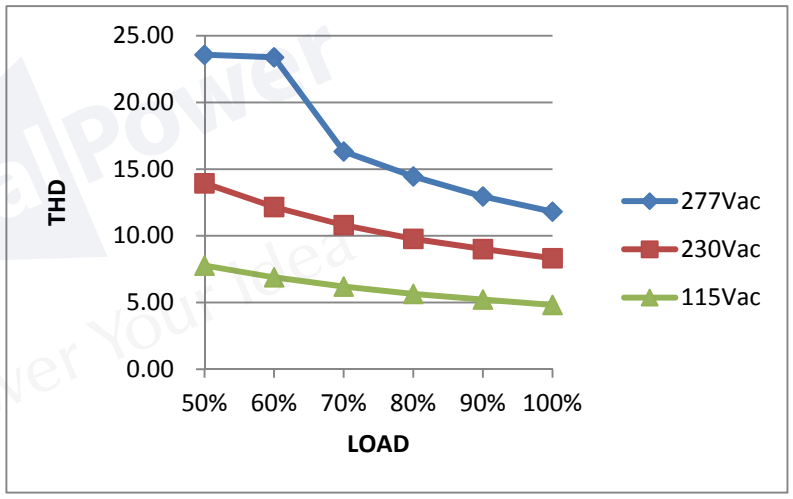
■ Power Factor (PF) Characteristic (※Ta at 50℃)

GP-CVP060P-24V-P03 Model



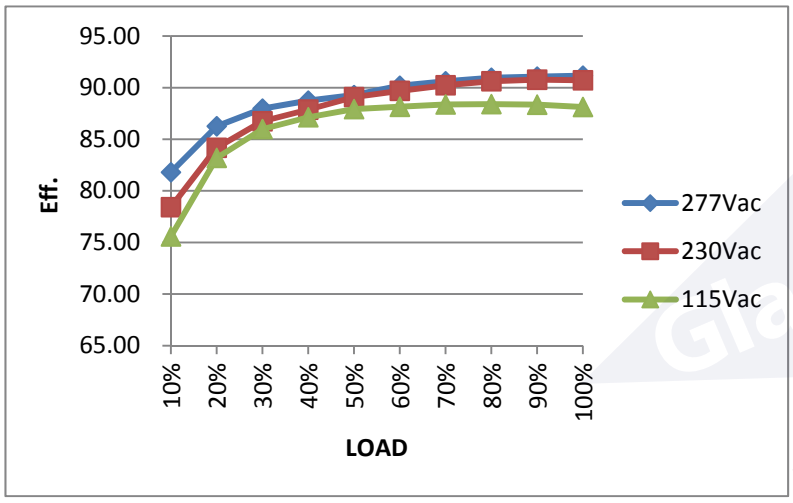
■ Total Harmonic Distortion (THD) (※Ta at 50℃)

GP-CVP060P-24V-P03 Model

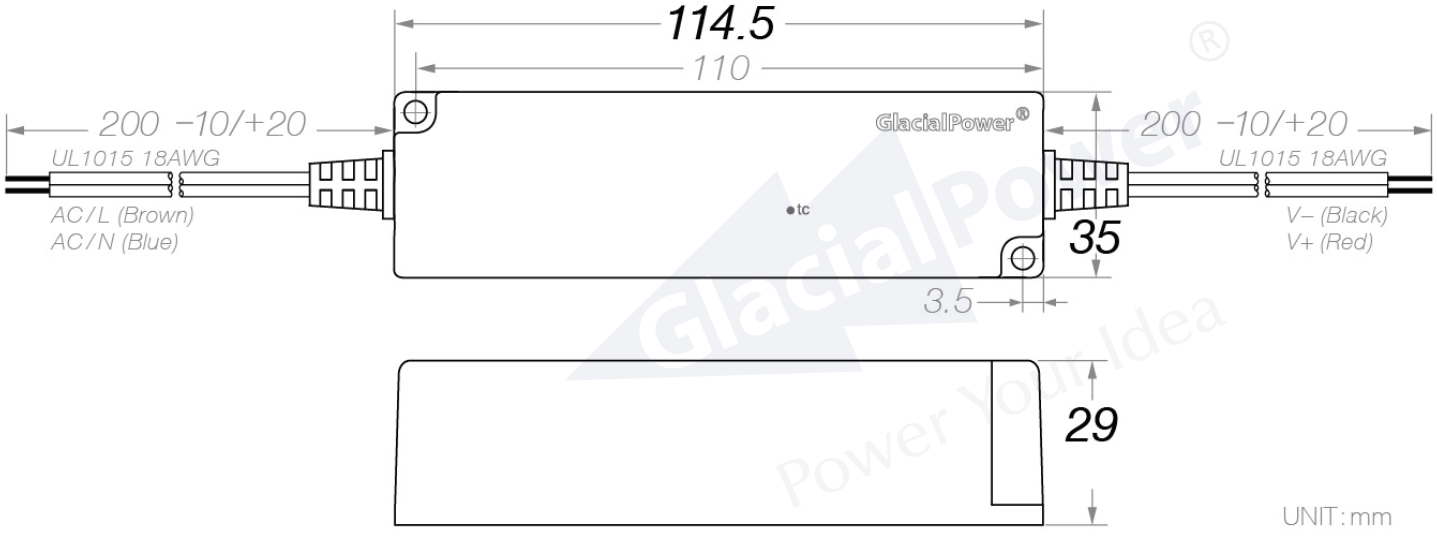


■ Efficiency vs Load (※Ta at 50℃)

GP-CVP060P-24V-P03 Model



■ Mechanical Specification



■ **Application** (Suitable for commercial and residential lighting, LED signage, furniture lighting, and smart lighting control systems.)

GP-CVP060P-12V-P03

GP-CVP060P-24V-P03

GP-CVP060P-48V-P03