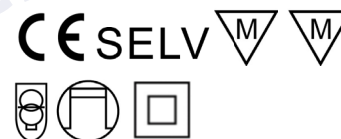


## Model: GP-CCP012P-xxCy-T02 Series

### ■ Features

- Universal AC input range 90~264VAC.
- Constant current mode.
- Active PFC design.
- Protections: OVP / SCP.
- Cooling by free air convection.
- Meet application for ErP(EU) 2019/2020.
- No-Load power consumption < 0.5W at 230VAC.
- Set up time < 0.5S at 230VAC.
- Wide voltage range from 3V to 42V.
- Suitable for high brightness light-emitting diode products.

### ■ Approvals



### ■ Size

86 x 45 x 26 mm (L x W x H)



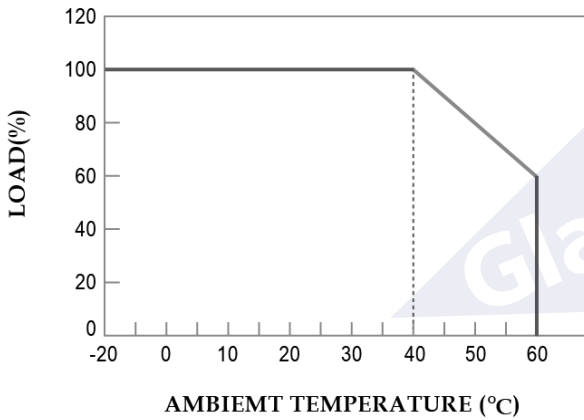
### ■ Specifications

xx: for Output Voltage, y: blank, 1 or 2 for different rated current

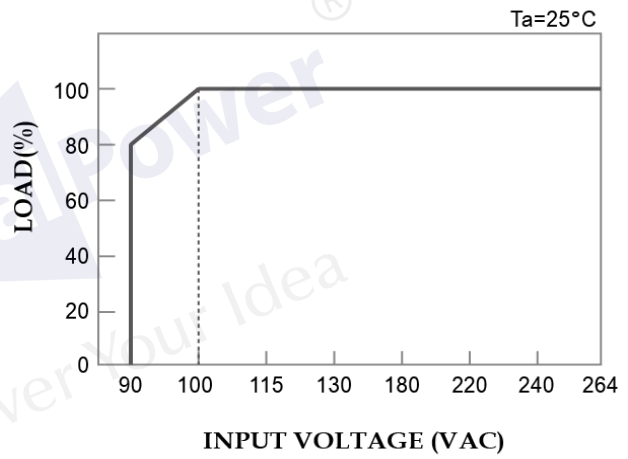
Model No.		GP-CCP012P-18C-T02	GP-CCP012P-24C-T02	GP-CCP012P-38C-T02
Output	DC Voltage	18V	24V	38V
	Constant Current Region Note.3	3 ~ 18V	3 ~ 24V	3 ~ 38V
	Rated Current	700mA	500mA	350mA
	Rated Power	12.6W	12W	13.3W
	Ripple & Noise (Max.) Note.2	100mV	100mV	100mV
	Efficiency (Typ.)	81%	83%	85%
	Current Tolerance Note.3	±5%	±5%	±5%
	Current Ripple(Max.) Note.5	70mA	50mA	35mA
	Set up Time (Max)	< 0.5S / 230VAC, at full load.		
Input	Rated Voltage	100 ~ 240VAC 175 ~ 340VDC		
	Voltage Range	90 ~ 264VAC		
	Frequency Range	47 Hz ~ 63 Hz		
	AC Current (Typ.)	0.16A at 115VAC, 0.08A at 230VAC	0.16A at 115VAC, 0.08A at 230VAC	0.16A at 115VAC, 0.08A at 230VAC
	Power Factor	>0.98 at 115VAC, >0.93 at 230VAC at full load.		
	Total Harmonic Distortion	THD < 15% at 230VAC, full load.		
	No-Load Power Consumption	< 0.5W at 230VAC(0.41W Typ.)		
	Inrush Current (Typ.)	Cold Start 8A (Td=22us measured at 50% Ipeak) at 230VAC		
	Max. Number of PSUs on Circuit Breaker	B type : 62 units (10A) / 100 units (16A) / 156 units (25A), C type : 62 units (10A) / 100 units (16A) / 156 units (25A), D type : 100 units (16A) / 156 units (25A) at 230VAC		
Protections	Leakage Current (Typ.)	<0.5mA / 230VAC		
	Short Circuit	Type: Hiccup mode, Recovers automatically after fault condition is removed.		
	Over Voltage	19.8V~30.6V	26.4V~40.8V	41.8V~64.6V
		Type: Constant current limiting, Auto-recovery		

Model No.		GP-CCP012P-42C-T02	GP-CCP012P-42C1-T02	GP-CCP012P-42C2-T02
Output	DC Voltage	42V	42V	42V
	Constant Current Region <small>Note.3</small>	6 ~ 42V	6 ~ 42V	6 ~ 42V
	Rated Current	300mA	250mA	200mA
	Rated Power	12.6W	10.5W	8.4W
	Ripple & Noise (Max.) <small>Note.2</small>	100mV	100mV	100mV
	Efficiency (Typ.)	85%	85%	84.5%
	Current Tolerance <small>Note.3</small>	±5%	±5%	±5%
	Current Ripple(Max.) <small>Note.5</small>	30mA	25mA	20mA
	Set up Time (Max)	< 0.5S / 230VAC, at full load.		
Input	Rated Voltage	100 ~ 240VAC 175 ~ 340VDC		
	Voltage Range	90 ~ 264VAC		
	Frequency Range	47 Hz ~ 63 Hz		
	AC Current (Typ.)	0.16A at 115VAC, 0.08A at 230VAC	0.12A at 115VAC, 0.08A at 230VAC	0.10A at 115VAC, 0.06A at 230VAC
	Power Factor	>0.98 at 115VAC, >0.93 at 230VAC at full load.		
	Total Harmonic Distortion	THD < 15% at 230VAC, full load.		
	No-Load Power Consumption	< 0.5W at 230VAC(0.41W Typ.)		
	Inrush Current (Typ.)	Cold Start 8A (Td=22us measured at 50% Ipeak) at 230VAC		
	Max. Number of PSUs on Circuit Breaker	B type : 62 units (10A) / 100 units (16A) / 156 units (25A), C type : 62 units (10A) / 100 units (16A) / 156 units (25A), D type : 100 units (16A) / 156 units (25A) at 230VAC		
	Leakage Current (Typ.)	<0.5mA / 230VAC		
Protections	Short Circuit	Type: Hiccup mode, Recovers automatically after fault condition is removed.		
	Over Voltage	46.2V~71.4V	46.2V~71.4V	46.2V~71.4V
Environment	Operation Temp.	-20 ~ +40°C(Refer to output load derating curve).		
	Operation Humidity	20% ~ 90% RH non-condensing.		
	Storage Temp.	-20 ~ +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	Compliance 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, EN61000-3-3		
	EMS Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11;EN61547		
Others	MTBF	100K hours min.MIL-HDBK-217F(25°C)		
	Dimension(L x W x H)	86 x 45 x 26mm; 72g/pcs (83g /pcs only for GP-CCP012P-18C-T02)		
Note	<p>1. All parameters not specially mentioned are measured at 230VAC full load and 25°C ambient temperature.</p> <p>2. Ripple &amp; Noise are measured at 20MHz bandwidth oscilloscope and with 0.1uf &amp; 47uf parallel capacitor.</p> <p>3. Constant current operation region is within the specified output voltage range above. This is the suitable operation region for LED related applications.</p> <p>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.</p> <p>5. Current Ripple are measured at 20MHz bandwidth oscilloscope and with 0.1uf &amp; 47uf parallel capacitor.</p>			

■ **Derating Curve**

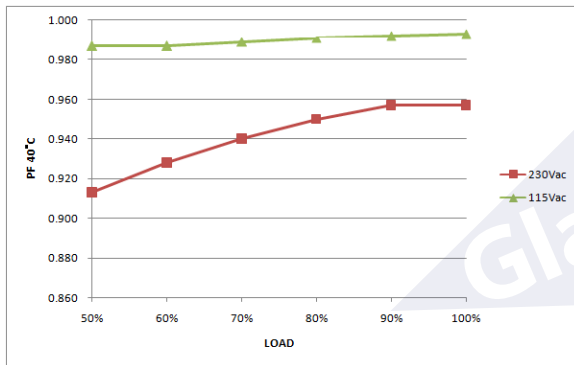


■ **Static Characteristics**



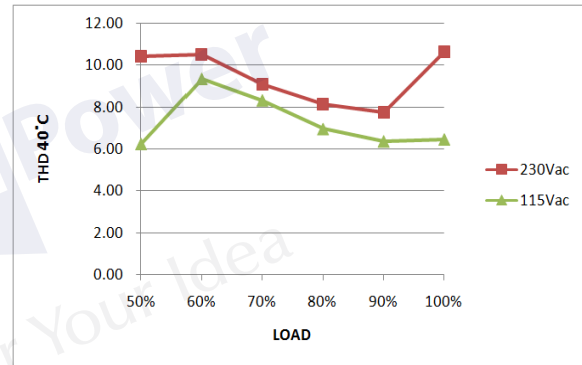
■ **Power Factor (PF) Characteristic (※Ta at 40°C)**

GP-CCP012P-24C-T02 Model



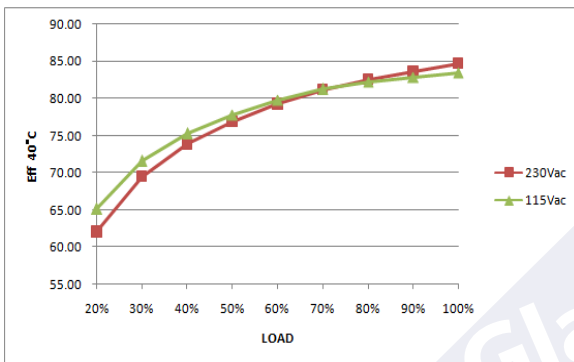
■ **Total Harmonic Distortion (THD) (※Ta at 40°C)**

GP-CCP012P-24C-T02 Model

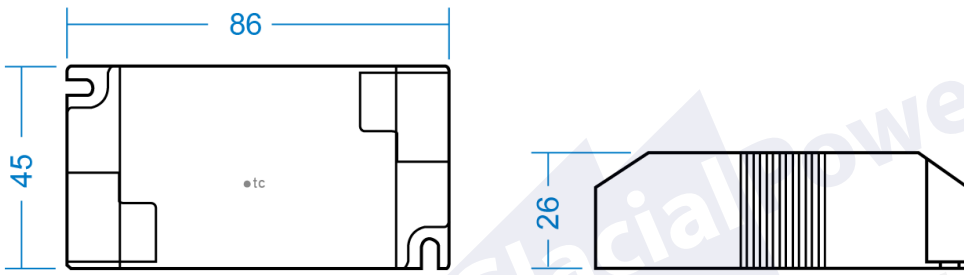


■ **Efficiency vs Load (※Ta at 40°C)**

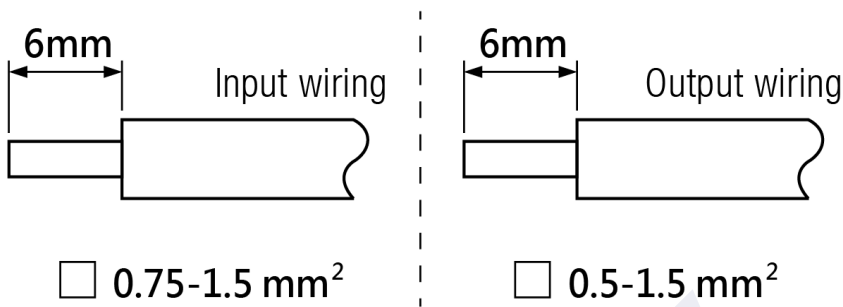
GP-CCP012P-24C-T02 Model



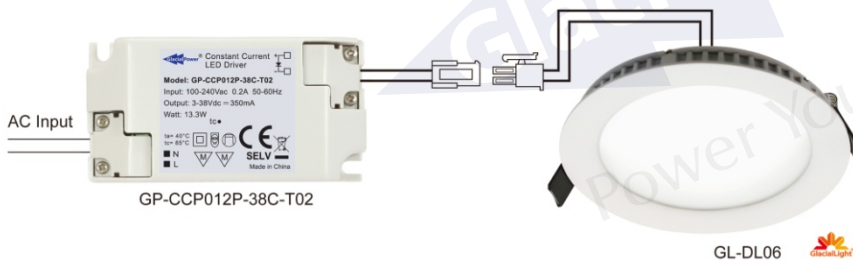
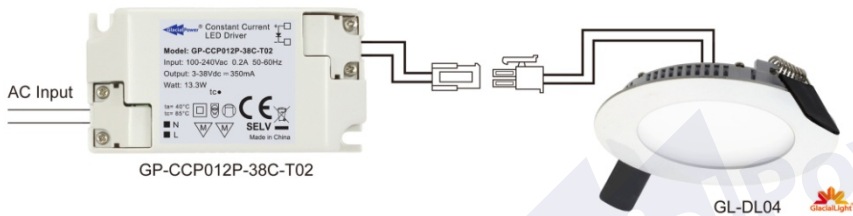
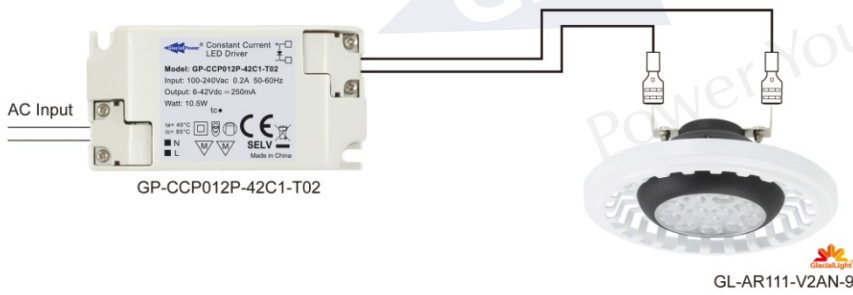
■ **Mechanical Specification**



■ **Wire Range for Terminal Block**



■ **Application**



■ **Product Naming Convention**

GP-CCP012P-xxCy-T02

