

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)



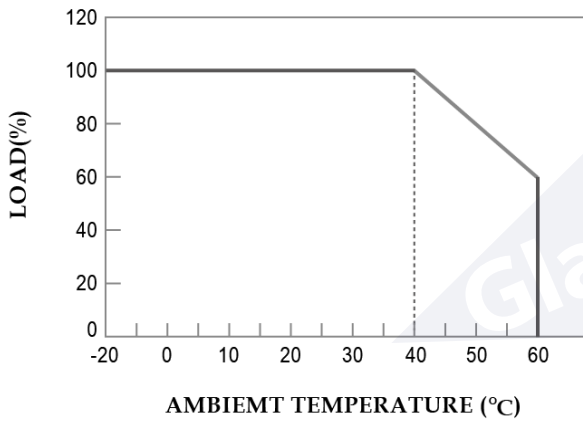
■ Specifications

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

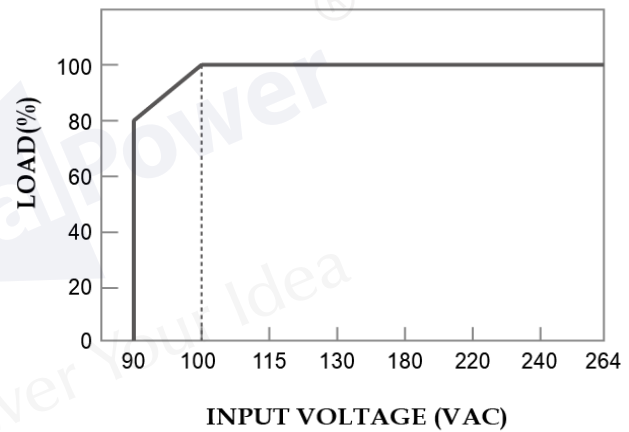
Model No.		GP-CCP012P-18C-T02	GP-CCP012P-24C-T02	GP-CCP012P-38C-T02
Output	DC Voltage	18V	24V	38V
	Constant Current Region Note.3	3 ~ 18V	3 ~ 24V	3 ~ 38V
	Rated Current	700mA	500mA	350mA
	Rated Power	12.6W	12W	13.3W
	Ripple & Noise (Max.) Note.2	100mV	100mV	100mV
	Efficiency (Typ.)	81%	83%	85%
	Current 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 Note.3	6 ~ 42V	6 ~ 42V	6 ~ 42V
	Rated Current	300mA	250mA	200mA
	Rated Power	12.6W	10.5W	8.4W
	Ripple & Noise (Max.) Note.2	100mV	100mV	100mV
	Efficiency (Typ.)	85%	85%	84.5%
	Current Tolerance Note.3	±5%	±5%	±5%
	Current Ripple(Max.) Note.5	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	1. All parameters not specially mentioned are measured at 230VAC full load and 25°C ambient temperature. 2. Ripple & Noise are measured at 20MHz bandwidth oscilloscope and with 0.1uf & 47uf parallel capacitor. 3. Constant current operation region is within the specified output voltage range above. This is the suitable operation region for LED related applications. 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. 5. Current Ripple are measured at 20MHz bandwidth oscilloscope and with 0.1uf & 47uf parallel capacitor.			

■ Derating Curve

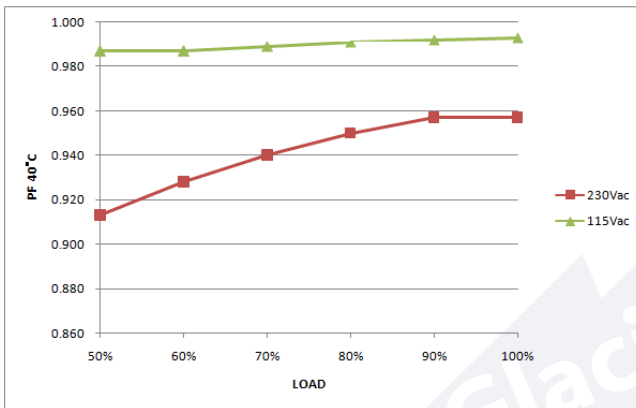


■ Static Characteristics



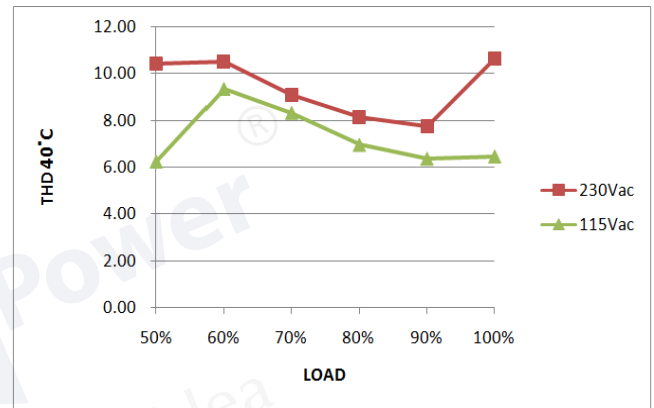
■ Power Factor (PF) Characteristic (※Ta at 40°C)

GP-CCP012P-24C-T02 Model



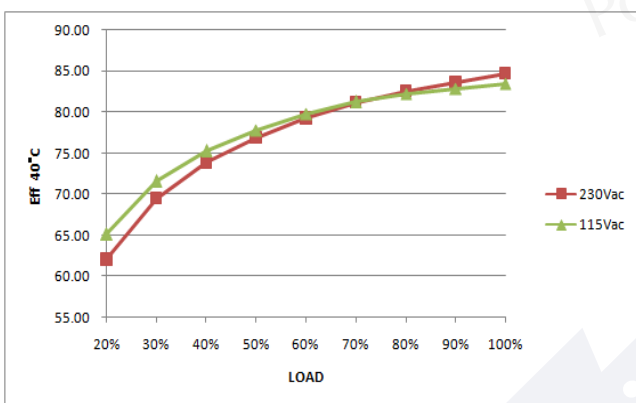
■ Total Harmonic Distortion (THD) (※Ta at 40°C)

GP-CCP012P-24C-T02 Model

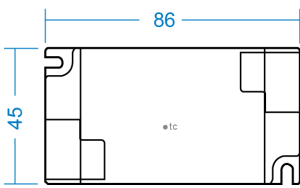


■ Efficiency vs Load (※Ta at 40°C)

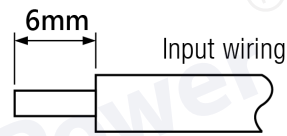
GP-CCP012P-24C-T02 Model



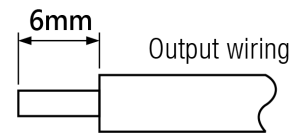
■ Mechanical Specification



■ Wire Range for Terminal Block

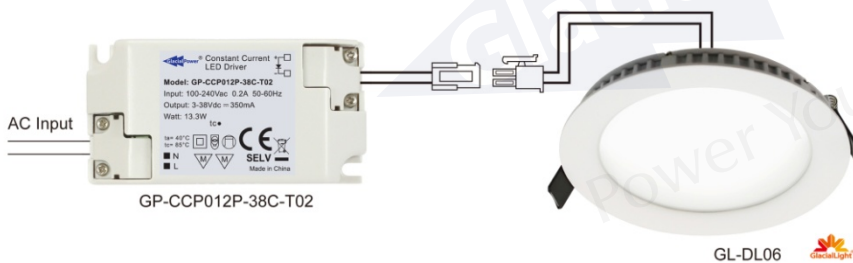
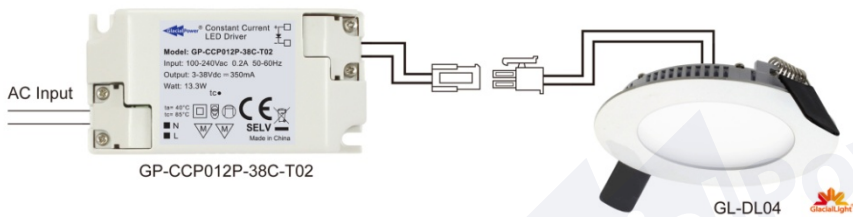
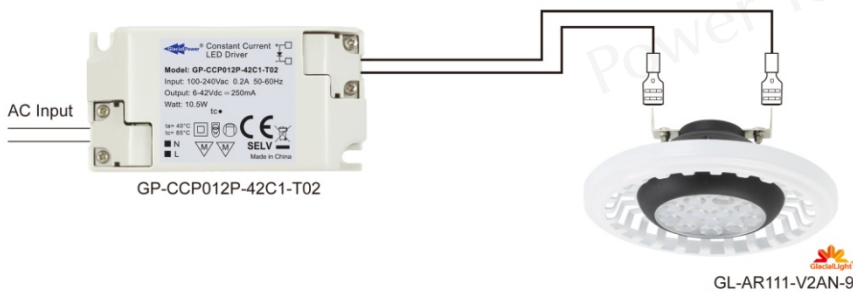


□ 0.75-1.5 mm²



□ 0.5-1.5 mm²

■ Application



■ Product Naming Convention

GP-CCP012P-xxCy-T02

