

Model: GP-CCP040P Series

■ Features

- Universal AC Input Range 90~264VAC.
- Constant Current mode.
- Active PFC design.
- Protections: OVP / SCP.
- Fully Insulated Case with IP67 rated.
- Meet application for ErP (EU) 2019/2020.
- No-Load power consumption < 0.5W at 230VAC.
- Set up time < 0.5S at 230VAC.
- Suitable for High Brightness Light-Emitting Diode products.

■ Approvals

CE FCC SELV IP67



■ Size

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



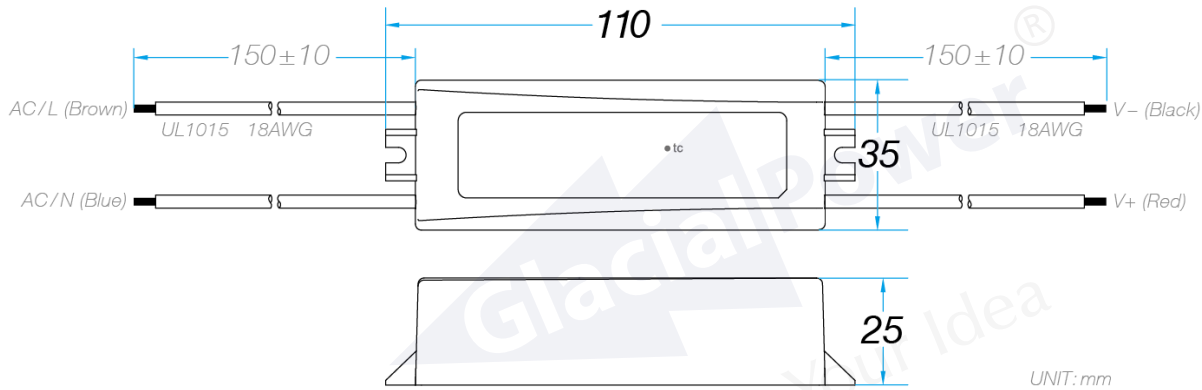
■ Specifications

GP-CCP040P-xxC-P02 (xx: for Output Voltage)

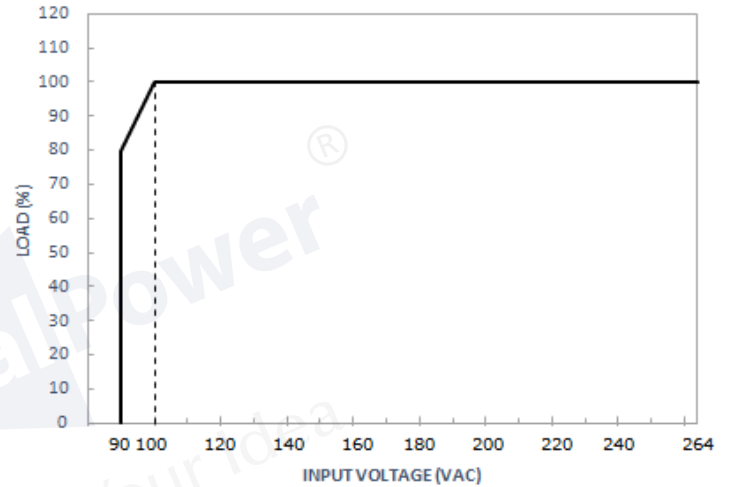
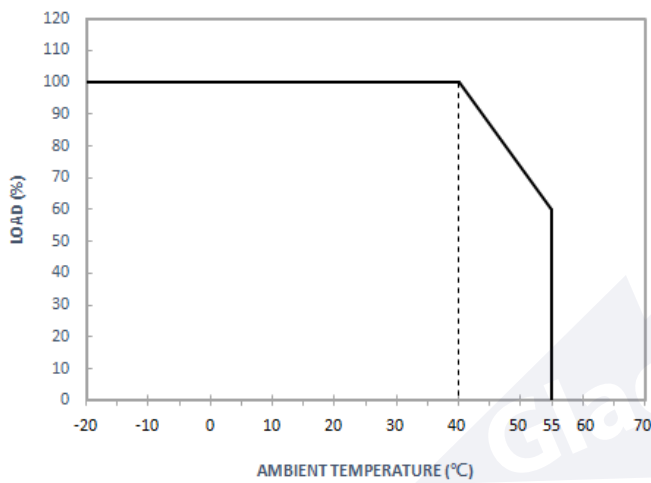
Model No.		GP-CCP040P-24C-P02	GP-CCP040P-40C-P02	GP-CCP040P-40C1-P02
Output	DC Voltage	24V	40V	40V
	Constant Current Region Note.3	8~24V	12 ~ 40V	12 ~ 40V
	Rated Current	1.67A	1.05A	0.9A
	Rated Power	40W	42W	36W
	Ripple & Noise (Max.) Note.2	200mV	200mV	200mV
	Efficiency (Typ.)	84%	84%	85%
	Current Tolerance Note.3	± 5%	± 5%	± 5%
	Set up Time (Max)	< 0.5S / 230VAC, at full load.		
Input	Rated Voltage	100 ~ 240VAC 141~340VDC		
	Voltage Range	90 ~ 264VAC		
	Frequency Range	47 Hz ~ 63 Hz		
	AC Current (Typ.)	0.48A at 115VAC, 0.24A at 230VAC	0.48A at 115VAC, 0.24A at 230VAC	0.42A at 115VAC, 0.22A at 230VAC
	Power Factor	>0.95 at 115VAC, >0.9 at 230VAC at full load.		
	Total Harmonic Distortion	THD < 10% at 230VAC, full load.		
	No-Load Power Consumption	< 0.5W at 230VAC		
	Inrush Current (Typ.)	Cold Start 25A (Td=40us measured at 50% Ipeak) at 230VAC		
	Max. Number of PSUs on Circuit Breaker	B type : 21 units (10A) / 34 units (16A) / 53 units (25A), C type : 21 units (10A) / 34 units (16A) / 53 units (25A), D type : 34 units (16A) / 53 units (25A) at 230VAC		
Protections	Leakage Current (Typ.)	<1mA / 230VAC		
	Short Circuit	Type: Recovers automatically after fault condition is removed		
	Over Voltage	26.4V~36V	44V~60V	44V~60V
		Type: Output Voltage limiting, auto-recovery		

Model No.		GP-CCP040P-52C -P02	GP-CCP040P-52C1 -P02	GP-CCP040P-52C2 -P02	GP-CCP040P-52C3 -P02
Output	DC Voltage	52V	52V	52V	52V
	Constant Current Region Note.3	22 ~ 52V	22 ~ 52V	22 ~ 52V	22 ~ 52V
	Rated Current	0.8A	0.7A	0.6A	0.5A
	Rated Power	41.6W	36.4W	31.2W	26W
	Ripple & Noise (Max.) Note.2	200mV	200mV	200mV	200mV
	Efficiency (Typ.)	86%	86%	85%	84%
	Current Tolerance Note.3	± 5%	± 5%	± 5%	± 5%
	Set up Time (Max)	< 0.5S / 230VAC, at full load.			
Input	Rated Voltage	100 ~ 240VAC 141~340VDC			
	Voltage Range	90 ~ 264VAC			
	Frequency Range	47 Hz ~ 63 Hz			
	AC Current (Typ.)	0.48A at 115VAC, 0.24A at 230VAC	0.42A at 115VAC, 0.22A at 230VAC	0.36A at 115VAC, 0.18A at 230VAC	0.30A at 115VAC, 0.16A at 230VAC
	Power Factor	>0.95 at 115VAC, >0.9 at 230VAC at full load.			
	Total Harmonic Distortion	THD < 10% at 230VAC, full load.			
	No-Load Power Consumption	< 0.5W at 230VAC			
	Inrush Current (Typ.)	Cold Start 25A (Td=40us measured at 50% Ipeak) at 230VAC			
	Max. Number of PSUs on Circuit Breaker	B type : 21 units (10A) / 34 units (16A) / 53 units (25A), C type : 21 units (10A) / 34 units (16A) / 53 units (25A), D type : 34 units (16A) / 53 units (25A) at 230VAC			
	Leakage Current (Typ.)	<1mA / 230VAC			
Protections	Short Circuit	Type: Recovers automatically after fault condition is removed			
	Over Voltage	57.2V~78V	57.2V~78V	57.2V~78V	57.2V~78V
Environment	Operation Temp.	-20 ~ +40°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	Compliance EN61347-1,EN61347-2-13 , IP67 Approved.			
	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			
Others	MTBF	100K hours min.MIL-HDBK-217F(25°C)			
	Dimension(L x W x H)	110 x 35 x 25mm; 156g/pcs			
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 by using a 12" twisted pair-wire terminated 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.				

■ Mechanical Specification

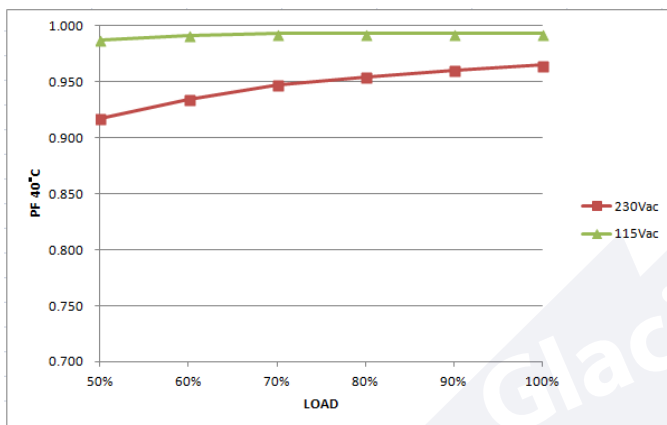


■ Derating Curve



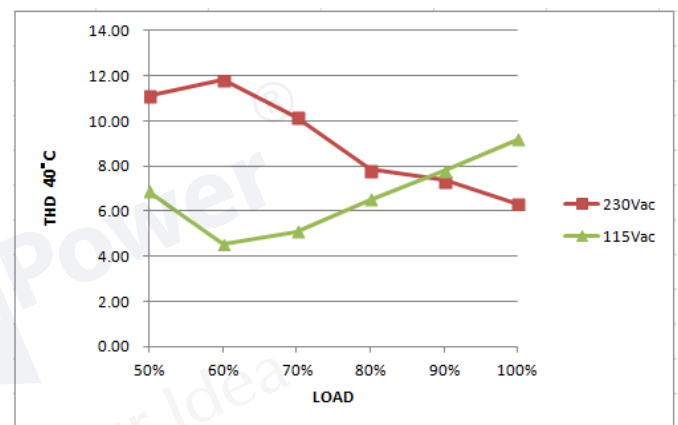
■ Power Factor (PF) Characteristic (※Ta at 40°C)

GP-CCP040P-52C1-P02 Model



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

GP-CCP040P-52C1-P02 Model



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

GP-CCP040P-52C1-P02 Model

