

Model: GP-CVM120P-xxVH(120W/230V) 120W Constant Voltage LED Driver with Triac Dimming

Features

- AC phase-cut dimming
- Input Range from 200VAC to 264VAC.
- Constant Voltage mode.
- Active PFC design.
- Protections: OVP / OCP / SCP / OTP.
- Work with leading edge and trailing edge TRIAC dimmers.
- Surge protection with 4KV/2KV.
- Fully Insulated Case with IP67 rated.
- Cooling by Free Air Convection (Metal Housing).
- No-load power consumption < 0.5W at 230VAC.
- Suitable for LED strip, signage, light box and neon flex.
- High Efficiency up to 90%

Approvals

CE SELV IP67



Size

250 x 80.3 x 33.5mm(L x W x H)



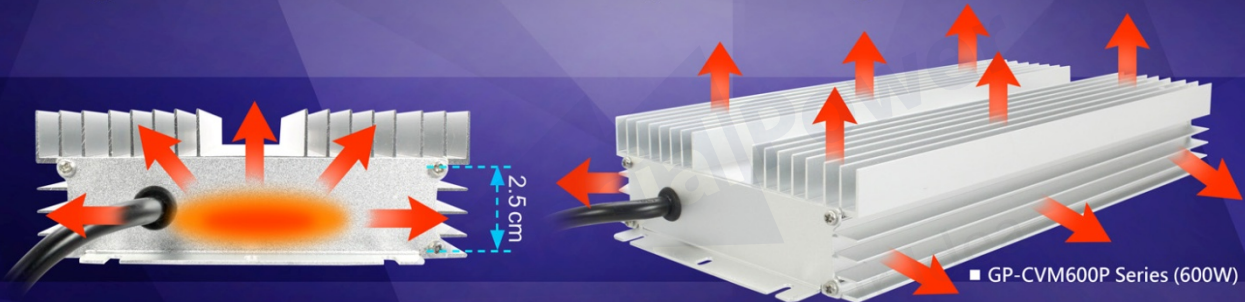
Specifications

Model No.		GP-CVM120P-12VH	GP-CVM120P-24VH	GP-CVM120P-36VH	GP-CVM120P-48VH
Output	DC Voltage	12V	24V	36V	48V
	Rated Current	10A	5A	3.33A	2.5A
	Rated Power	120W	120W	119.9W	120W
	Ripple & Noise(Max.)note.2	200mV	350mV	400mV	500mV
	Efficiency (Typ.)note.1	90%	90%	90 %	90%
	Voltage Tolerance note.3	± 5%	± 5%	± 5%	± 5%
	Dimming Range	3%~100%			
	Minimum Load	50W			
	PWM Dimming	> 1600Hz			
Set up Time (Max.)	0.5S / 230VAC at full load				
Input	Rated Voltage	220~240VAC			
	Voltage Range	200~264VAC			
	Frequency Range	50/60 Hz			
	AC Current (Typ.)	0.8A at 230VAC			
	Power Factor	> 0.94 at 230VAC with full load.			
	Inrush Current (Typ.)	Cold Start 40A (Td=800us measured at 50% Ipeak) at 230VAC			
	Max. Number of PSUs on Circuit Breaker	B type : 2 unit (10A) / 3 units (16A) / 5 units (25A), C type : 3 units (10A) / 6 units (16A) / 9 units (25A), D type : 12 units (16A) / 18 units (25A) at 230VAC			
	Leakage Current(Typ.)	<1mA / 230VAC			
	No-load power consumption	< 0.5W at 230VAC (0.45W Typ.)			

Protections	Over Voltage	13V~19V	26V~38V	38V~50V	50V~65V
	Type:Hiccup mode (Auto recover after fault condition disappeared).				
	Over Current	105~180% rated current, Type: Latch Off(re-power on to recover).			
	Over Temperature	95°C±10%,Type: Latch Off (re-power on to recover).			
Environment	Short Circuit	Type: Latch Off(re-power on to recover).			
	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			
Safety&EMC	Vibration	10~500 Hz, 2G 10 min./1 cycle, period for 60 min. each along X, Y, Z axes.			
	Safety Standards	meet EN61347-1,EN61347-2-13, independent. ,IP67 Approved.			
	Withstand Voltage	I/P - O/P : 3.75K VAC I/P-FG:1.88KVAC O/P-FG:0.5KVAC			
	Isolation Resistance	I/P-O/P,I/P-FG : 100M ohms , O/P-FG : 4M ohms / 500VDC at 25°C			
	EMI Conduction & Radiation	Compliance to EN55015			
	Harmonic Current	Compliance to EN61000-3-2 Class C(100% load), EN61000-3-3			
Others	EMS Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547			
	MTBF	100K hours min. @Ta=25°C			
Note	Dimension (L x W x H)	250 x 80.3 x 33.5mm ; 930g/pcs			
	<p>1. All parameters NOT specially mentioned are measured at 230V/50HZ AC input, rated load and 25°C ambient temperature.</p> <p>2. Ripple & Noise are measured at 20MHZ bandwidth oscilloscope and with 0.1uf & 47uf parallel capacitor at 100% duty output</p> <p>3. Voltage Tolerance: includes line regulation, load regulation and set-up tolerance.</p> <p>4. The power supply is considered a component which will be installed a final equipment.</p> <p>The final equipment must be re-confirmed that it still meets EMC directives.</p>				

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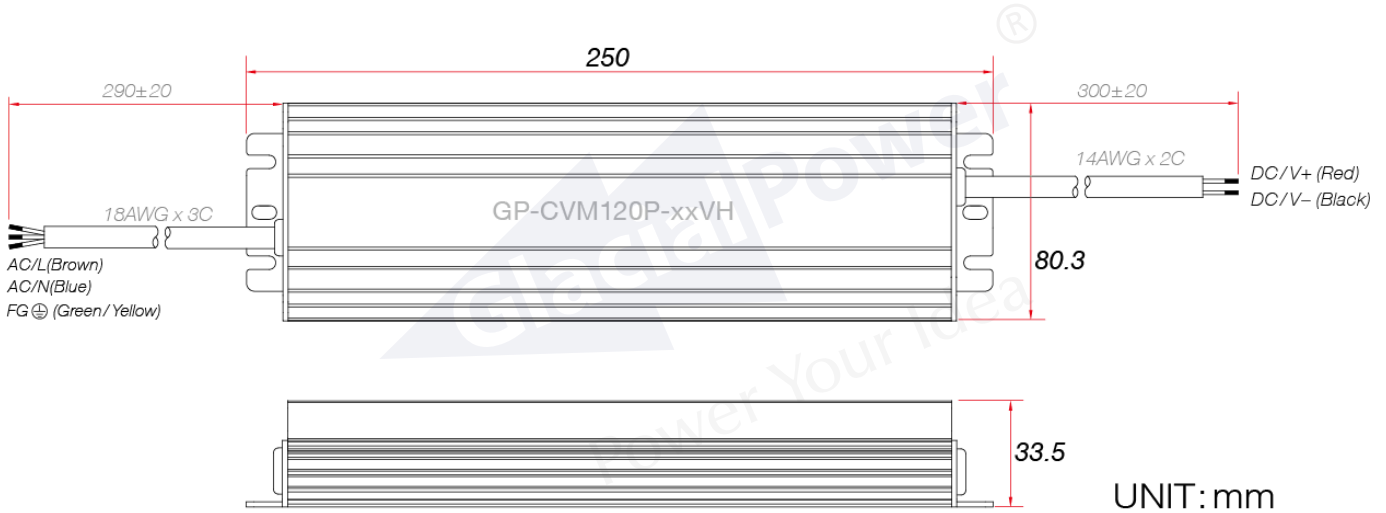
The excellent heat dissipation design of GlacialPower GP-CVM LED driver to ensure high and stable reliability for long-term use.



Very low profile design of aluminum housing –
Quickly transmit the heat from the inside components to the aluminum housing.

Large area of heat dissipation design –
Quickly dissipate the heat from aluminum fins into the surrounding air.

Mechanical Specification

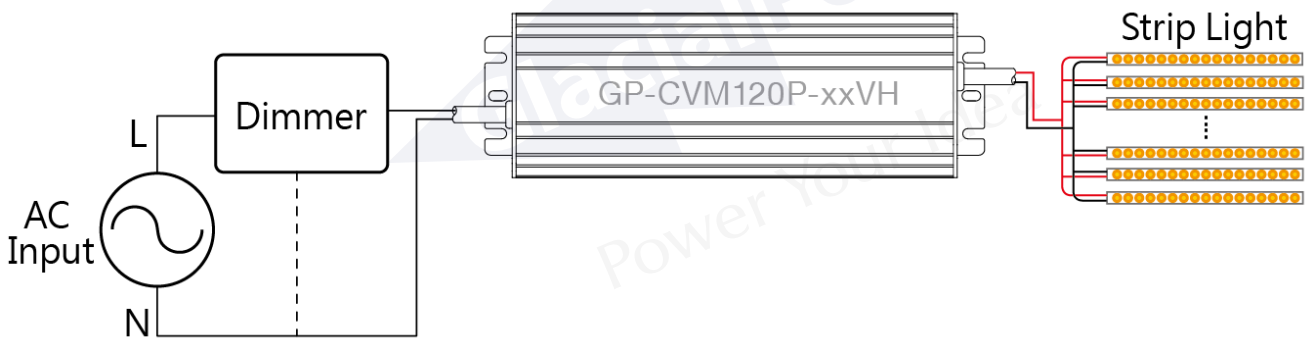


UNIT: mm

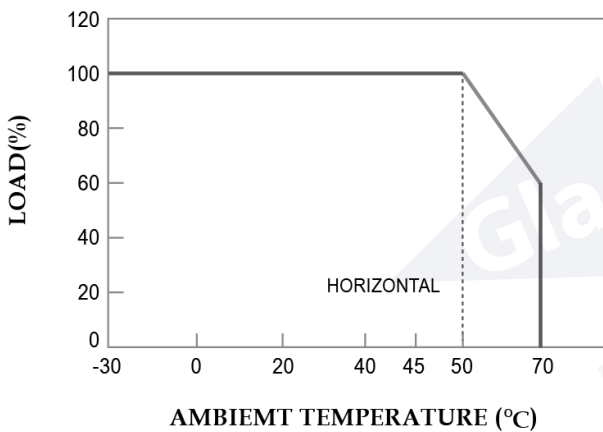
Dimmer Recommended

Brand	Parts NO.
BERKER	286710
GIRA	245500

Wiring Diagram



Derating Curve



Application



LED Signage



LED Neon Flex, LED Strip & LED Light Box

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