









Features

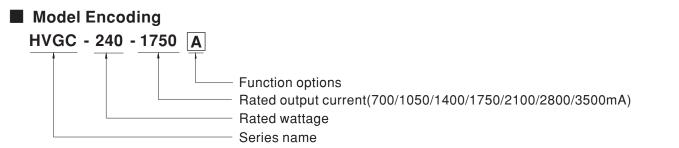
- · Wide input range 180 ~ 528VAC
- · Constant Current mode output
- · Metal housing with Class I design
- · Built-in active PFC function
- · IP67 / IP65 design for indoor or outdoor installations
- Function options: output adjustable via potentiometer; 3 in 1 dimming (dim-to-off) ; Smart timer dimming
- Typical lifetime>50000 hours
- 5 years warranty

Description

Applications

- LED street lighting
- · LED high-bay lighting
- · Parking space lighting
- LED fishing lamp
- Type "HL" for use in Class I , Division 2 hazardous (Classified) location.

HVGC-240 series is a 240W LED AC/DC LED power supply featuring the constant current mode and high voltage output. HVGC-240 operates from 180~528VAC and offers models with different rated current ranging between 700mA and 3500mA. Thanks to the high efficiency up to 93.5%, with the fanless design, the entire series is able to operate for -40° C ~ $+90^{\circ}$ C case temperature under free air convection. The design of metal housing and IP67/IP65 ingress protection level allows this series to fit both indoor and outdoor applications. HVGC-240 is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.



Туре	IP Level	Function	Note
A	IP65	Io adjustable through built-in potentiometer.	In Stock
В	IP67	3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock
AB	IP65	Io adjustable through built-in potentiometer & 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock
Dx	IP67	Built-in Smart timer dimming function by user request.	By request
D2	IP67	Built-in Smart timer dimming and programmable function.	By request

File Name:HVGC-240-SPEC 2021-09-03



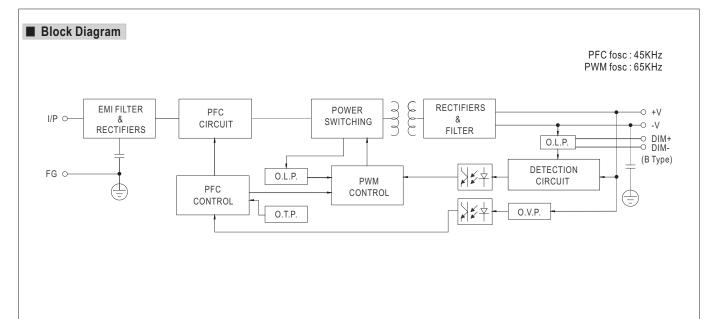
SPECIFICATION

	HVGC-240-700	HVGC-240-1050	HVGC-240-1400	HVGC-240-1750	HVGC-240-2100	HVGC-240-2800	HVGC-240-3500	
RATED CURRENT	700mA	1050mA	1400mA	1750mA	2100mA	2800mA	3500mA	
RATED POWER	240W	240W	240W	240W	240W	240W	240.1W	
CONSTANT CURRENT REGION Note.2	171.4 ~ 342.8V	114.3 ~ 228.6V	85.7 ~ 171.4V	68.5~137.1V	57.2 ~ 114.3V	42.9 ~ 85.7V	34.3~68.6V	
OPEN CIRCUIT VOLTAGE (max.)	354V	235V	176V	141V	117V	88V	71V	
,								
CURRENT ADJ. RANGE	350~700mA	525~1050mA	700~1400mA	875~1750mA	1050~2100mA	1400~2800mA	1750~3500mA	
CURRENT RIPPLE	5.0% max. @rated current							
CURRENT TOLERANCE								
VOLTAGE RANGE Note.3	(Please refer to "STATIC CHARACTERISTIC" section)							
FREQUENCY RANGE	47 ~ 63Hz							
POWER FACTOR (Typ.)								
					201/401			
TOTAL HARMONIC DISTORTION					, , , , , , , , , , , , , , , , , , ,			
			1		92 5%	92 5%	92.5%	
				5570	02.070	32.370	JZ.J /0	
			-	at 1801/AC: Par NEN	44.410			
	COLD START 30		Sureu at 50 % ipeak)		WA 410			
	4unit(circuit brea	ker of type B) / 6uni	its(circuit breaker o	f type C) at 480VAC	2			
	<0.75mA (400) //	<u>^</u>						
SHORT CIRCUIT		0 :			1	00 001/	70 701/	
OVER VOLTAGE				144 ~ 158V	120~131.4V	90~99V	72~79V	
	Shut down o/p voltage with re-power on to recovery							
		•	•					
		C (Please refer to "	OUTPUT LOAD vs	TEMPERATURE"	section)			
MAX. CASE TEMP.	Tcase=+90°C							
	20 ~ 95% RH non-condensing							
STORAGE TEMP., HUMIDITY	_40 ~ +80°℃, 10 ~	- 95% RH						
TEMP. COEFFICIENT	±0.03%/°C (0~	60°C)						
VIBRATION	10 ~ 500Hz, 5G 1	2min./1cycle, peric	od for 72min. each	along X, Y, Z axes				
SAFETY STANDARDS	UL8750 (type"HL"), CSA C22.2 No. 250.13-12, IEC/BS EN/EN61347-1,IEC/BS EN/EN61347-2-13, BS EN/EN62384 independent,							
	EAC TP TC 004,	IP65 or IP67 approv	ved					
WITHSTAND VOLTAGE	I/P-O/P:3.75KV/	C I/P-FG:2KVA	C O/P-FG:1.5K	/AC				
ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH							
	Compliance to FCC Part 15 Subpart B, BS EN/EN55015, BS EN/EN61000-3-2(@load ≥ 80%), BS EN/EN61000-3-3,							
	EAC TP TC 020							
	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61547, light industry level (surge immunity Line-Earth 4KV,							
	Line-Line 2KV), EAC TP TC 020							
MTBF	143.6K hrs min.	MIL-HDBK-217F	(25°C)					
DIMENSION	254.2*68*38.8mr	n (L*W*H)						
PACKING		-						
			AC input, rated cu	rent and 25 $^\circ\!{ m C}$ of a	ambient temperatu	re.		
 This series meets the typical life expectancy of >50,000 hours of operation when rease, particularly (C point (or TMP, per DLC), is about 80 C or less. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com. 								
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9. For any application note an	Upload/PDF/LED_	EN.pdf	·	er supply can only	be used behind a	switch without per	manently	
	RATED POWER CONSTANT CURRENT REGION Note.2 OPEN CIRCUIT VOLTAGE (max.) CURRENT ADJ. RANGE CURRENT RIPPLE CURRENT TOLERANCE SET UP TIME Note.4 VOLTAGE RANGE Note.3 FREQUENCY RANGE POWER FACTOR (Typ.) TOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) AC CURRENT (Typ.) MAX. NO. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT special 2. Please refer to "DRIVING M 3. De-rating may be needed u 4. Length of set up time is me 5. The driver is considered as complete installation, the firm 6. This series meets the typical	RATED CURRENT 700mA RATED POWER 240W CONSTANT CURRENT REGION Note.2 171.4 ~ 342.8V OPEN CIRCUIT VOLTAGE (max.) 354V CURRENT ADJ. 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RANGE Adjustable for A/AB-Type only (via bi 350~700mA 525-1050mA CURRENT TOLERANCE ±5% 50ms/230VAC, 347VAC, 480VAC VOLTAGE RANGE Note.4 500ms/230VAC, 347VAC, 480VAC VOLTAGE RANGE Note.4 500ms/230VAC, 254VDC ~ 747V (Please refer to "STATIC CHARACT FREQUENCY RANGE 47 ~ 63Hz POWER FACTOR (Typ.) 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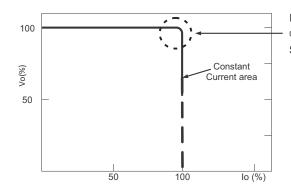
240W Constant Current Mode LED Driver

HVGC-240 series



DRIVING METHODS OF LED MODULE

% This series works in constant current mode to directly drive the LEDs.

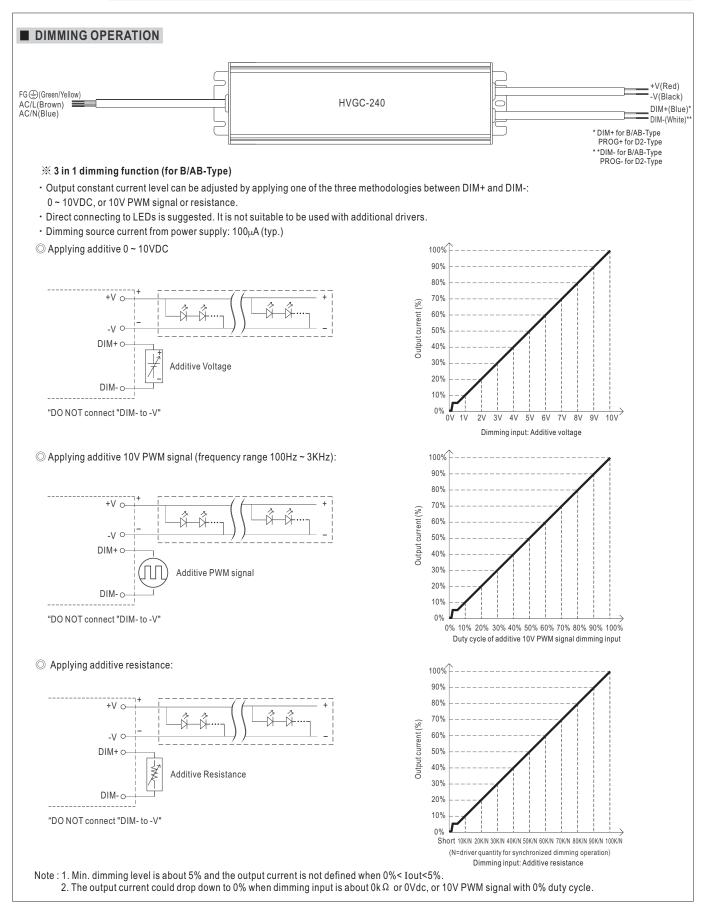


Typical output current normalized by rated current (%)

In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEAN WELL.

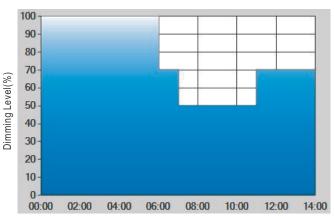






% Smart timer dimming function (for Dxx-Type by User definition)

MEAN WELL Smart timer dimming primarily provides the adaptive proportion dimming profile for the output constant current level to perform up to 14 consecutive hours. 3 dimming profiles hereunder are defined accounting for the most frequently seen applications. If other options may be needed, please contact MEAN WELL for details.



Ex : \bigcirc D01-Type: the profile recommended for residential lighting

Set up for D01-Type in Smart timer dimming software program:

	T1	T2	Т3	Τ4
TIME**	06:00	07:00	11:00	
LEVEL**	100%	70%	50%	70%

Operating Time(HH:MM)

**: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

Example: If a residential lighting application adopts D01-Type, when turning on the power supply at 6:00pm, for instance:

[1] The power supply will switch to the constant current level at 100% starting from 6:00pm.

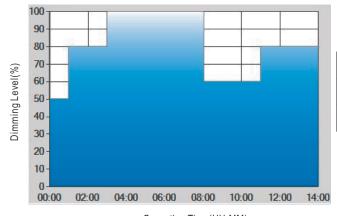
[2] The power supply will switch to the constant current level at 70% in turn, starting from 0:00am, which is 06:00 after the power supply turns on.

[3] The power supply will switch to the constant current level at 50% in turn, starting from 1:00am, which is 07:00 after the power supply turns on.

[4] The power supply will switch to the constant current level at 70% in turn, starting from 5:00am, which is 11:00 after the power supply turns on.

The constant current level remains till 8:00am, which is 14:00 after the power supply turns on.

Ex: O D02-Type: the profile recommended for street lighting



Set up for D02-Type in Smart timer dimming software program:

	T1	T2	Т3	Τ4	Т5
TIME**	01:00	03:00	8:00	11:00	
LEVEL**	50%	80%	100%	60%	80%

Operating Time(HH:MM)

**: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

Example: If a street lighting application adopts D02-Type, when turning on the power supply at 5:00pm, for instance:

[1] The power supply will switch to the constant current level at 50% starting from 5:00pm.

[2] The power supply will switch to the constant current level at 80% in turn, starting from 6:00pm, which is 01:00 after the power supply turns on.

[3] The power supply will switch to the constant current level at 100% in turn, starting from 8:00pm, which is 03:00 after the power supply turns on.

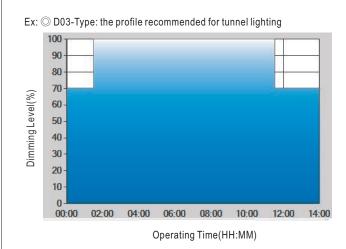
[4] The power supply will switch to the constant current level at 60% in turn, starting from 1:00am, which is 08:00 after the power supply turns on.

[5] The power supply will switch to the constant current level at 80% in turn, starting from 4:00am, which is 11:00 after the power supply turns on. The constant current level remains till 6:30am, which is 14:00 after the power supply turns on.



240W Constant Current Mode LED Driver

HVGC-240 series



Set up for D03-Type in Smart timer dimming software program:

	T1	T2	Т3
TIME**	01:30	11:00	
LEVEL**	70%	100%	70%

**: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

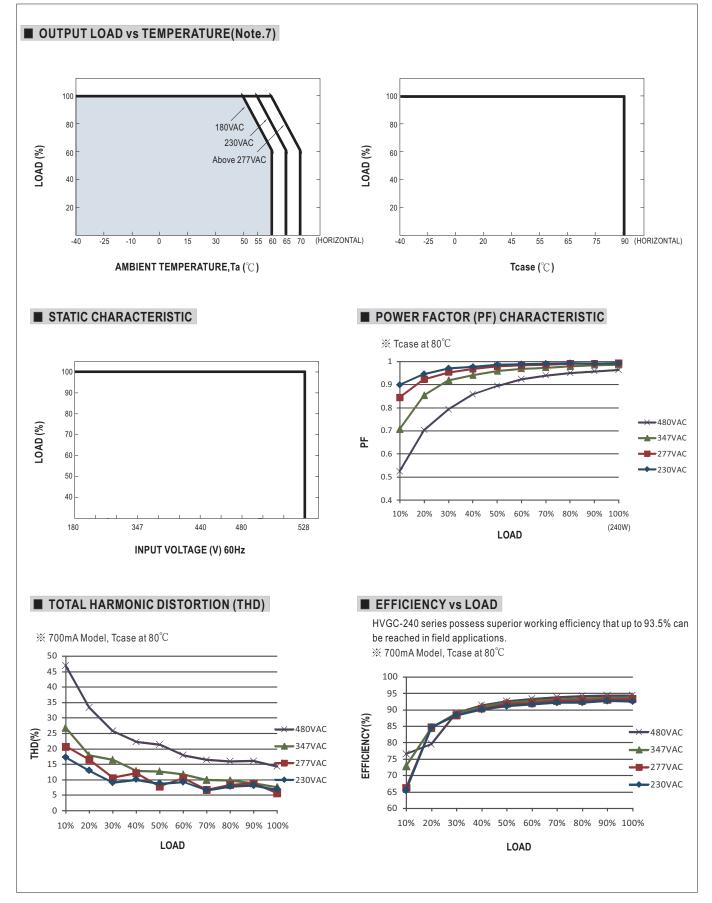
Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

[1] The power supply will switch to the constant current level at 70% starting from 4:30pm.

[2] The power supply will switch to the constant current level at 100% in turn, starting from 6:00pm, which is 01:30 after the power supply turns on.

[3] The power supply will switch to the constant current level at 70% in turn, starting from 5:00am, which is 11:00 after the power supply turns on. The constant current level remains till 6:30am, which is 14:00 after the power supply turns on.







240W Constant Current Mode LED Driver

HVGC-240 series

LIFE TIME

