









Features

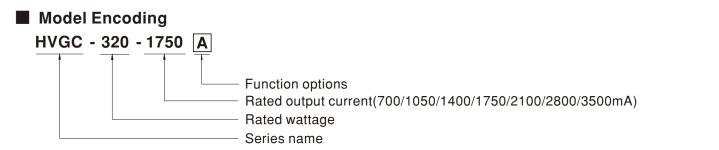
- Wide input range 180 ~ 528VAC
- Constant Current mode output
- · Metal housing with Class I design
- · Built-in active PFC function
- · IP67 / IP65 design for indoor or outdoor installations
- Function options: output adjustable via potentiometer; 3 in 1 dimming (dim-to-off); Smart timer dimming
- 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-320 series is a 320W LED AC/DC LED power supply featuring the constant current mode and high voltage output. HVGC-320 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°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-320 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-320-SPEC 2021-09-29



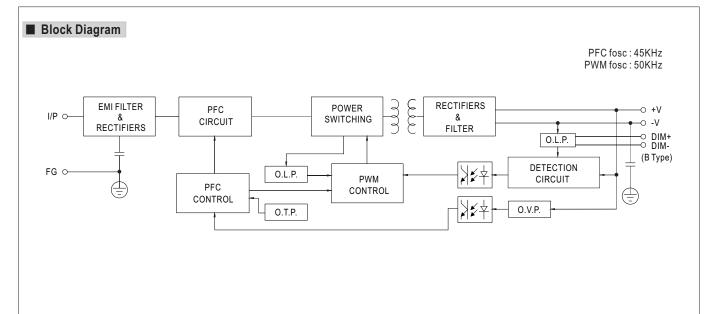
SPECIFICATION

MODEL		HVGC-320-700	HVGC-320-1050	HVGC-320-1400	HVGC-320-1750	HVGC-320-2100	HVGC-320-2800	HVGC-320-3500	
	RATED CURRENT	700mA	1050mA	1400mA	1750mA	2100mA	2800mA	3500mA	
	RATED POWER	300W	320W	320W	320W	320W	320W	320W	
	CONSTANT CURRENT REGION Note.2		152.4 ~ 304.8V	114.3 ~ 228.6V	91.4~182.8V	76.2 ~ 152.4V	57 ~ 114.3V	45.7 ~ 91.4V	
ł	OPEN CIRCUIT VOLTAGE (max.)		311V	234V	187V	156V	118V	94V	
OUTPUT		Adjustable for A/AB-Type only (via built-in potentiometer)							
	CURRENT ADJ. RANGE	350~700mA	525~1050mA	700~1400mA	875~1750mA	1050~2100mA	1400~2800mA	1750~3500mA	
ł	CURRENT RIPPLE	5.0% max. @rate					1100 20001111		
	CURRENT TOLERANCE	±5%							
ł		500ms/230VAC, 347VAC, 480VAC							
			180 ~ 528VAC 254VDC ~ 747VDC						
	VOLTAGE RANGE Note.3	(Please refer to "STATIC CHARACTERISTIC" section)							
ł	FREQUENCY RANGE	47 ~ 63Hz							
ł		PF≥0.98/230VAC, PF≥0.97/277VAC, PF≥0.95/347VAC, PF≥0.93/480VAC @full load							
	POWER FACTOR (Typ.)	(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)							
		THD< 20%(@ lo	ad≧50%/230VAC	. 277VAC. 347VAC	$0.00 \log \ge 60\%/48$	BOVAC)			
INPUT	TOTAL HARMONIC DISTORTION		TOTAL HARMONI	, ,					
	EFFICIENCY (Typ.)	93.5%	93.5%	93.5%	93.5%	93.5%	93.5%	93%	
	AC CURRENT (Typ.)	1.1A/347VAC	0.8A / 480VAC	,•	/0	/0	/0		
	INRUSH CURRENT(Typ.)		A(twidth=920µs meas	sured at 50% Ipeak)	at 480VAC: Per NEM	MA 410			
ŀ	MAX. NO. of PSUs on 16A			. ,					
	CIRCUIT BREAKER	2 unit(circuit breaker of type B) / 4 units(circuit breaker of type C) at 480VAC							
	LEAKAGE CURRENT	<0.75mA / 480VAC							
	SHORT CIRCUIT	Constant current	limiting, recovers a	automatically after t	ault condition is rer	moved			
		445 ~ 455V	320 ~ 351V	240 ~ 263V	192 ~ 210V	160 ~ 175V	120~131V	96 ~ 105V	
PROTECTION	OVER VOLTAGE	445~455V 320~351V 240~265V 192~210V 160~175V 120~151V 96~105V Shut down o/p voltage with re-power on to recovery							
ł	OVER TEMPERATURE		° 1		r on to recover				
	WORKING TEMP.	Shut down and latch off o/p voltage, re-power on to recover Tcase=-40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)							
ł	MAX. CASE TEMP.								
		20 ~ 95% RH non-condensing							
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH							
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)							
ł	VIBRATION	±0.03%/C(0~60C) 10~500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes							
		UI 8750 (type"HL") CSA C22 2 No. 250 13-12 JEC/BS EN/EN/613/7-1 JEC/BS EN/EN/613/7-2-13 BS EN/EN/62384 independent							
	SAFETY STANDARDS Note.11	EAC TP TC 004, IP65 or IP67 approved							
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC							
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG: O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH							
EMC	EMC EMISSION	Compliance to FCC Part 15 Subpart B, BS EN/EN55015, BS EN/EN61000-3-2(@load ≥ 50%), BS EN/EN61000-3-3, EAC TP TC 020							
ľ		Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61547, light industry level (surge immunity Line-Earth 4KV,							
	EMC IMMUNITY	Line-Line 2KV), criteria A, EAC TP TC 020							
	MTBF	141.2K hrs min. MIL-HDBK-217F (25°C)							
OTHERS	DIMENSION	262*90*43.8mm (L*W*H)							
	PACKING	2Kg; 8pcs/17Kg/0.92CUFT							
NOTE	1. All parameters NOT special	ly mentioned are	measured at 347V	AC input, rated cu	rrent and 25 $^\circ\!{ m C}$ of a	ambient temperatu	ire.		
	2. Please refer to "DRIVING METHODS OF LED MODULE".								
	3. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.								
	 Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the 								
	complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.								
	6. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (to) point (or TMP, per DLC), is about 80°C or less.								
	7. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com.								
	8. The ambient temperature derating of 3.5° C/1000m with fanless models and of 5° C/1000m with fan models for operating altitude higher than 2000m(6500ft)								
	9. For any application note and IP water proof function installation caution, please refer our user manual before using.								
	https://www.meanwell.com/Upload/PDF/LED_EN.pdf								
	10. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently								
	connected to the mains. 11. The models certified by CCC (GB19510.14, GB19510.1, GB17743 and GB17625.1) are optional models. Please contact your MEAN WELL sales								
				740	- 4)			(- 11)	
		CC (GB19510.14,	GB19510.1, GB17	7743 and GB1762	5.1) are optional m	odels. Please cont	tact your MEAN W	ELL sales	



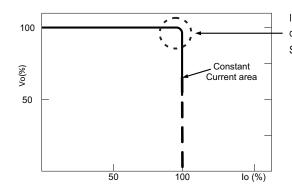
320W Constant Current Mode LED Driver

HVGC-320 series



DRIVING METHODS OF LED MODULE

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

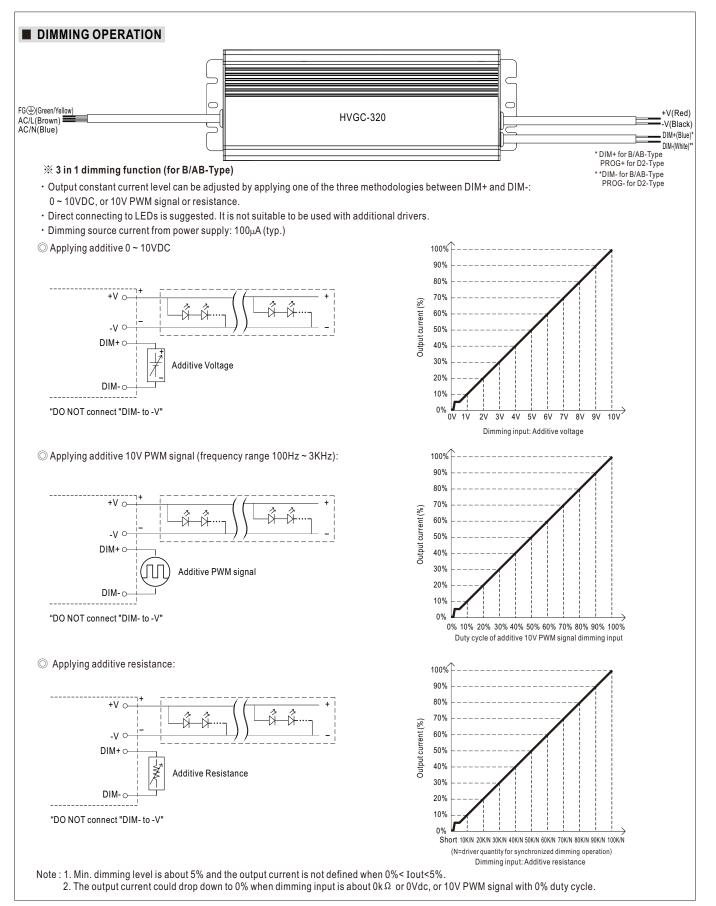


Typical output current normalized by rated current (%)

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.

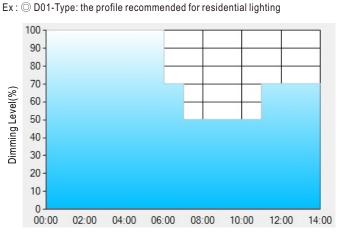






% Smart timer dimming function (for Dxx-Type by User definition)

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.



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.

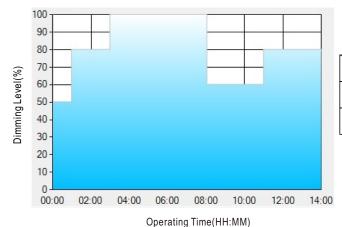
[2] The power supply will switch to the constant current level at 70% in turn, starting from 0:00am, which is 06:00 after the power supply turns on.

[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	T4	Τ5
TIME**	01:00	03:00	8:00	11:00	
LEVEL**	50%	80%	100%	60%	80%

**: 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.

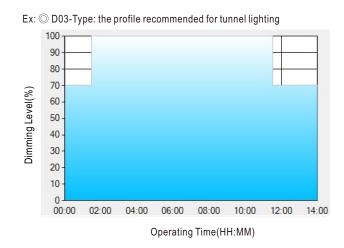
[4] The power supply will switch to the constant current level at 60% in turn, starting from 1:00am, which is 08:00 after the power supply turns on.

[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.



320W Constant Current Mode LED Driver

HVGC-320 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.

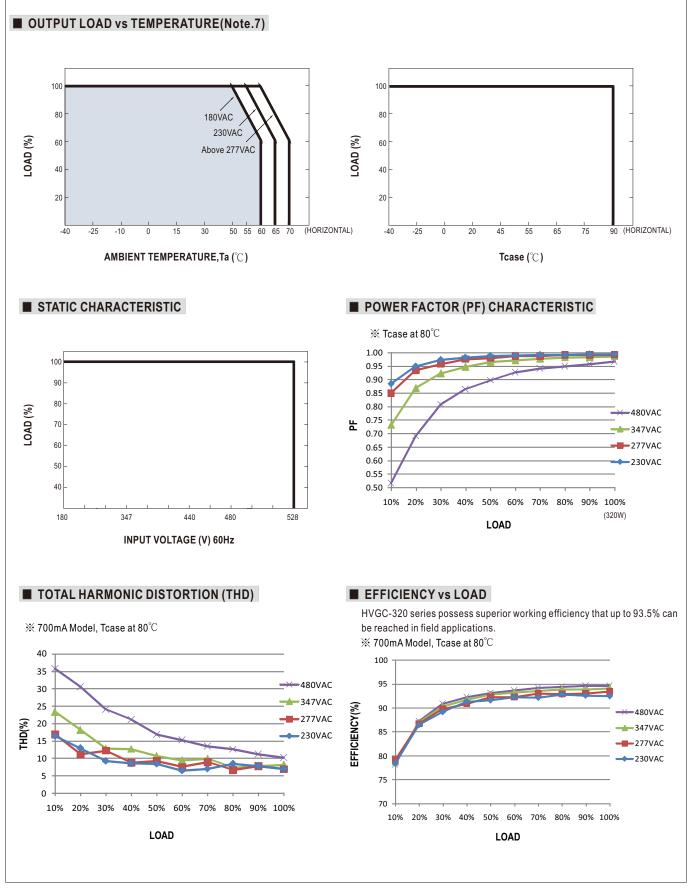
Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

[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.



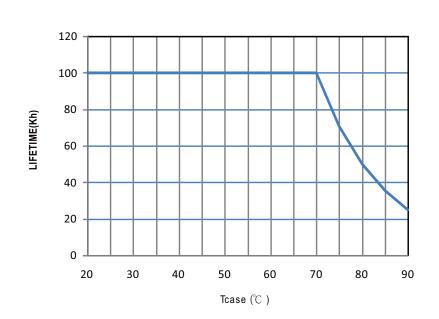




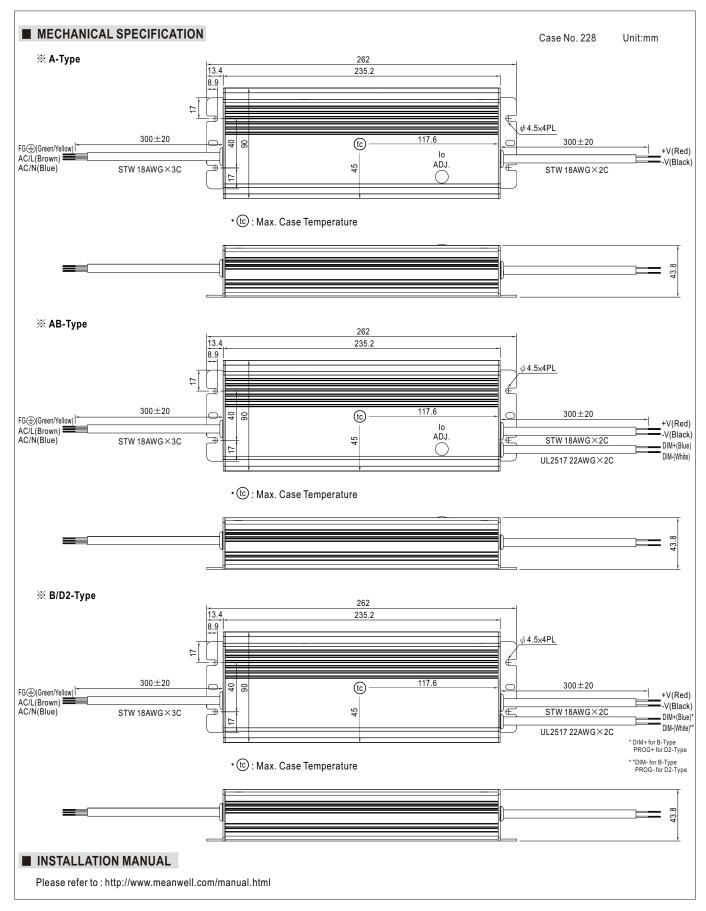
320W Constant Current Mode LED Driver

HVGC-320 series

■ LIFE TIME







File Name:HVGC-320-SPEC 2021-09-29

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