









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); 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.

GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

HVGC-150 series is a 150W LED AC/DC LED power supply featuring the constant current mode and high voltage output. HVGC-150 operates from 180~528VAC and offers models with different rated current ranging between 350mA and 1400mA. Thanks to the high efficiency up to 91%, with the fanless design, the entire series is able to operate for -40° C ~ $+80^{\circ}$ 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-150 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	lo 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
D	IP67	Timer dimming function, contact MEAN WELL for details(safety pending).	By request



SPECIFICATION

MODEL		HVGC-150-350	HVGC-150-500	HVGC-150-700	HVGC-150-1050	HVGC-150-1400		
	RATED CURRENT	350mA	500mA					
OUTPUT	RATED POWER	149.8W	150W	150.5W	150.15W	149.8W		
	CONSTANT CURRENT REGION Note.2		30 ~ 300V	21 ~ 215V	15~143V	12~107V		
		Adjustable for A/AB-Type only (via built-in potentiometer)						
	CURRENT ADJ. RANGE	210 ~ 350mA	300 ~ 500mA	420 ~ 700mA	630 ~ 1050mA	840 ~ 1400mA		
	CURRENT RIPPLE Note.5	8.0% max. @rated current						
	CURRENT TOLERANCE	±5.0%						
	SET UP TIME Note.4	500ms / 230Vac 400ms / 347VAC,480VAC						
-		180 ~ 528VAC 254VDC ~ 747VDC						
	VOLTAGE RANGE Note.3							
	FREQUENCY RANGE	47 ~ 63Hz						
		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%(@ load≥50%/230VAC, 277VAC, 347VAC; @ load≥75%/480VAC)						
	TOTAL HARMONIC DISTORTION	(Please refer to "TOTAL HARMONIC DISTORTION (THD)" section)						
	EFFICIENCY (Typ.)	91%	91%	91%	90%	90%		
-	AC CURRENT (Typ.)		3A / 480VAC					
	INRUSH CURRENT (Typ.)	COLD START 35A(twidth=790/zs measured at 50% Ipeak) at 480VAC; Per NEMA 410						
	MAX. No. of PSUs on 16A							
	CIRCUIT BREAKER	4 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 480VAC						
	LEAKAGE CURRENT	<0.75mA / 480VAC						
PROTECTION	SHORT CIRCUIT	Constant current limiting	, recovers automatically	after fault condition is rem	noved			
		430~460V	316 ~ 346V	226~247V	151~165V	113 ~ 124V		
	OVER VOLTAGE	Shut down o/p voltage w						
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down						
	WORKING TEMP.	Tcase=-40 ~ +80°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)						
ENVIRONMENT	MAX. CASE TEMP.	Tcase=+80°C						
		20 ~ 95% RH non-condensing						
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH						
	TEMP. COEFFICIENT	$\pm 0.03\%/^{\circ}$ (0 ~ 60°C)						
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes						
SAFETY & EMC	SAFETY STANDARDS	UL8750(type"HL"), CSA C22.2 No. 250.0-08, TUV BS EN/EN61347-1, BS EN/EN61347-2-13, EAC TP TC 004, IP65 or IP67 approve						
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC						
	ISOLATION RESISTANCE	I/P-0/P:3./5kVAC I/P-FG:2kVAC 0/P-FG:1.5kVAC I/P-0/P. I/P-FG: 0/P-FG:100M Ohms / 500VDC / 25°C / 70% RH						
		[/P-O/P, I/P-FG, O/P-FG:100M Onms / 500VDC / 25 C / 70% RH Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (@ load≧50%) ; BS EN/EN61000-3-3, FCC part 15 class B,						
	EMC EMISSION	EAC TP TC 020 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-Farth							
	EMC IMMUNITY	Line-Line 2KV), EAC TP TC 020						
-	MTBF	1755.7K hrs min. Telcordia SR-332 (Bellcore) ; 179.5K hrs min. MIL-HDBK-217F (25° C)						
	DIMENSION	245*68*38.8mm (L*W*H)						
	PACKING	1.24Kg; 12pcs/15.9Kg/0.78CUFT						
NOTE	1. All parameters NOT specially mentioned are measured at 347VAC input, rated current and 25°C of ambient temperature.							
	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.							
	4. 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.							
	5. Current ripple is measured between 50%~100% of maximum voltage under rated power delivery. 6. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the							
	6. 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.							
	complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. 7. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED driver can only be used behind a switch without permanently							
	connected to the mains.							
	8. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (c) point (or TMP, per DLC), is about 80°C or less.							
	9. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com.							
	10. 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(6500f							
	11. 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							
	https://www.meanwell.com/	Upload/PDF/LED_EN.pd	ſ					



Block Diagram



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.











150W Constant Current Mode LED Driver

HVGC-150 series

LIFE TIME







File Name:HVGC-150-SPEC 2022-02-18







WATERPROOF CONNECTION

$\% \ {\rm Waterproof} \ {\rm connector}$

Waterproof connector can be assembled on the output cable of HVGC-150 to operate in dry/wet/damp or outdoor environment.

