









#### 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  $-40^{\circ}$ 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	700mA	1050mA	1400mA		
	RATED POWER	149.8W	150W	150.5W	150.15W	149.8W		
	CONSTANT CURRENT REGION Note.2	42 ~ 428V	30 ~ 300V	21~215V	15 ~ 143V	12~107V		
OUTPUT		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 curre						
	CURRENT TOLERANCE	±5.0%						
		500ms / 230Vac 400ms / 347VAC.480VAC						
		180 ~ 528VAC 254VDC ~ 747VDC						
	VOLTAGE RANGE Note.3							
	FREQUENCY RANGE	47 ~ 63Hz						
			> 0 97/277\/AC PE>0 9	5/347\/AC PE>0 93/480\/4	AC @full load			
	POWER FACTOR (Typ.)	PF≥0.98/230VAC, PF≥0.97/277VAC, PF≥0.95/347VAC, PF≥0.93/480VAC @full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)						
	TOTAL HARMONIC DISTORTION	THD<20%(@ load≥50%/230VAC, 277VAC, 347VAC; @ load≥75%/480VAC) (Please refer to "TOTAL HARMONIC DISTORTION (THD)" section)						
	EFFICIENCY (Typ.)	91%	91%	91%	90%	90%		
	AC CURRENT (Typ.)		8A / 480VAC	91/0	90 %	90 /6		
-	INRUSH CURRENT (Typ.)			Ineak) at 480\/AC+ Per NEM	A 410			
		COLD START 35A(twidth=790µ/s 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 Constant current limiting, recovers automatically after fault condition is removed						
PROTECTION	SHORT CIRCUIT					440 40414		
	OVER VOLTAGE	430 ~ 460V	316~346V	226~247V	151 ~ 165V	113 ~ 124V		
			vith auto-recovery or re-p					
	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							
	WORKING HUMIDITY	20 ~ 95% RH non-condensing						
	STORAGE TEMP., HUMIDITY							
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)						
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes						
	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					C 004, IP65 or IP67 appro		
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC						
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH						
LING	EMC EMISSION	Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (@ load≧50%) ; BS EN/EN61000-3-3, FCC part 15 class B, EAC TP TC 020						
	EMC IMMUNITY	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	1755.7K hrs min. Telcordia SR-332 (Bellcore) ; 179.5K hrs min. MIL-HDBK-217F (25℃)						
OTHERS	DIMENSION	245*68*38.8mm (L*W*H	l)					
	PACKING	1.24Kg; 12pcs/15.9Kg/0	.78CUFT					
NOTE	<ol> <li>All parameters NOT special!</li> <li>Please refer to "DRIVING M</li> <li>De-rating may be needed ur</li> <li>Length of set up time is measured to</li> <li>Current ripple is measured to</li> <li>The driver is considered as a complete installation, the final (as available on https://www</li> <li>To fulfill requirements of the connected to the mains.</li> <li>This series meets the typical</li> <li>Please refer to the warranty</li> <li>The ambient temperature of</li> <li>For any application note an https://www.meanwell.com/</li> <li>For A/AB type need to complete to "DRIVING M"</li> </ol>	ETHODS OF LED MOE nder low input voltages. I asured at first cold start. between 50%~100% of r a component that will be al equipment manufactur .meanwell.com//Upload/f latest ErP regulation for I life expectancy of >50,0 statement on MEAN WE lerating of 3.5°C/1000m id IP water proof functior 'Upload/PDF/LED_EN.pc	ULE". Please refer to "STATIC Turning ON/OFF the po- naximum voltage under operated in combinatio ers must re-qualify EMC PDF/EMI_statement_en. ighting fixtures, this LEE 00 hours of operation v ELL's website at http://w with fanless models and installation caution, ple If mply with Type HL appli	CHARACTERISTIC" sect wer supply may lead to in- rated power delivery. n with final equipment. Sin 2 Directive on the complete pdf) 0 driver can only be used when Tcase, particularly (to ww.meanwell.com. 1 of 5°C/1000m with fan m ase refer our user manual	ions for details. crease of the set up time. e installation again. behind a switch without pe ) point (or TMP, per DLC), nodels for operating altitude before using.	rmanently is about 80℃ or less.		



PFC fosc : 130KHz PWM fosc : 70KHz

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-0 +V

-0 -V -0 DIM+ -0 DIM-

(B Type)

Block Diagram EMI FILTER <u>JJJ</u> RECTIFIERS POWER PFC & FILTER I/P 🤇 & RECTIFIERS SWITCHING CIRCUIT 0.L.P. DETECTION CIRCUIT FG C 0.L.P. ⋛⋛ PWM & PFC PFC CONTROL CONTROL 0.V.P. 0.T.P. \$

#### 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 2025-04-18







#### 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.

