





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

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.

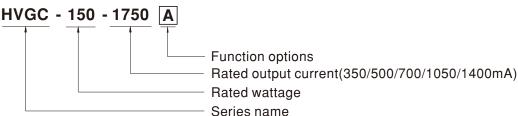
■ GTIN CODE

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

Description

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°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.

■ Model Encoding



Type	IP Level	Function	Note
Α	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

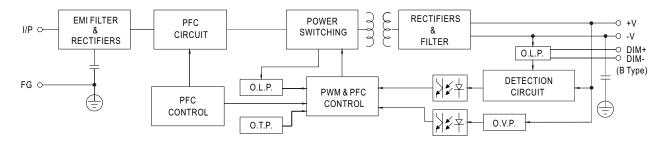
SPECIFICATION

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		30 ~ 300V	21 ~ 215V	15 ~ 143V	12 ~ 107V			
OUTPUT	CONCIANT CONNENT REGION NO.C.2	Adjustable for A/AB-Type only (via built-in potentiometer)							
OUTFUT	CURRENT ADJ. RANGE	210 ~ 350mA	300 ~ 500mA	420 ~ 700mA	630 ~ 1050mA	840 ~ 1400mA			
	CURRENT RIPPLE Note.5	8.0% max. @rated curre		420 7001171	000 10001111	040 1400111/1			
	CURRENT TOLERANCE	±5.0%							
	SET OF TIME Note.4	The state of the s							
	VOLTAGE RANGE Note.3	180 ~ 528VAC							
	EDECUENCY DANCE	(Please refer to STATIC CHARACTERISTIC section)							
	FREQUENCY RANGE	47 ~ 63Hz							
	POWER FACTOR (Typ.)	PF≥0.98/230VAC, PF≥0.97/277VAC, PF≥0.95/347VAC, PF≥0.93/480VAC @full load							
	TOWERTACTOR (Typ.)	(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)							
	TOTAL HARMONIC DISTORTION	THD< 20%(@ load \geq 50%/230VAC, 277VAC, 347VAC; @ load \geq 75%/480VAC)							
INPUT		(Please refer to "TOTAL HARMONIC DISTORTION (THD)" section)							
	EFFICIENCY (Typ.)	91%	91%	91%	90%	90%			
-	AC CURRENT (Typ.)	0.5A/347VAC 0.38A/480VAC							
	INRUSH CURRENT (Typ.)	COLD START 35A(twidth=790µs measured at 50% lpeak) at 480VAC; Per NEMA 410							
	MAX. No. of PSUs on 16A	4 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 480VAC							
	CIRCUIT BREAKER								
	LEAKAGE CURRENT	<0.75mA / 480VAC							
DROTECTION	SHORT CIRCUIT	Constant current limiting	, recovers automatically	after fault condition is rem	oved				
	OVER VOLTAGE	430 ~ 460V	316 ~ 346V	226 ~ 247V	151 ~ 165V	113 ~ 124V			
FROILCHON	OVER VOLTAGE	Shut down o/p voltage with auto-recovery or re-power on to recovery							
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down							
	WORKING TEMP.	TEMP. Tcase=-40 ~ +80°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)							
	MAX. CASE TEMP.	Tcase=+80°C							
ENVIRONMENT	WORKING HUMIDITY	20 ~ 95% RH non-condensing							
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH							
	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								
	WITHSTAND VOLTAGE	UE750(type HL), CSA C22.2 NO. 250.0-08, TOV BS EN/ENG1347-1, BS EN/ENG1347-2-13, EAC TP TC 004, IP65 of IP67 approve							
SAFETY &	ISOLATION RESISTANCE								
EMC		I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 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 TPTC 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,							
	EMC IMMUNITY	Line-Line 2KV), EAC TP TC 020							
	MTBF	1755.7K hrs min. Teld	cordia SR-332 (Bellcore)	; 179.5K hrs min. MIL-l	HDBK-217F (25°C)				
OTHERS	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.								
NOTE	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								
	to the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.								
	(as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)								
	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 (tc) 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(6500i 11. For any application note and IP water proof function installation caution, please refer our user manual before using.								
	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								
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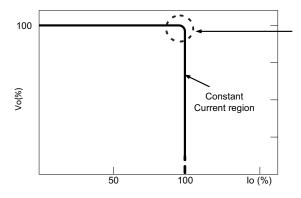
■ Block Diagram

PFC fosc: 130KHz PWM fosc: 70KHz



■ 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.

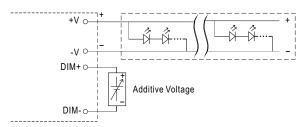


■ DIMMING OPERATION



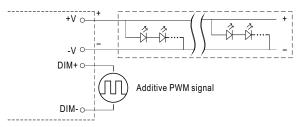
※ 3 in 1 dimming function (for B/AB-Type)

- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-:
 0 ~ 10VDC, or 10V PWM signal or resistance.
- · Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: $100\mu A$ (typ.)
- O Applying additive 0 ~ 10VDC



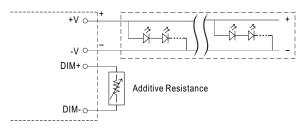
"DO NOT connect "DIM- to -V"

O Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):

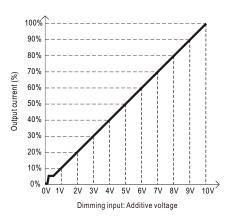


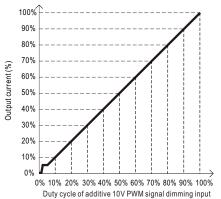
"DO NOT connect "DIM- to -V"

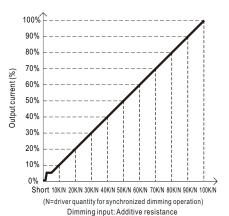
O Applying additive resistance:



"DO NOT connect "DIM- to -V"



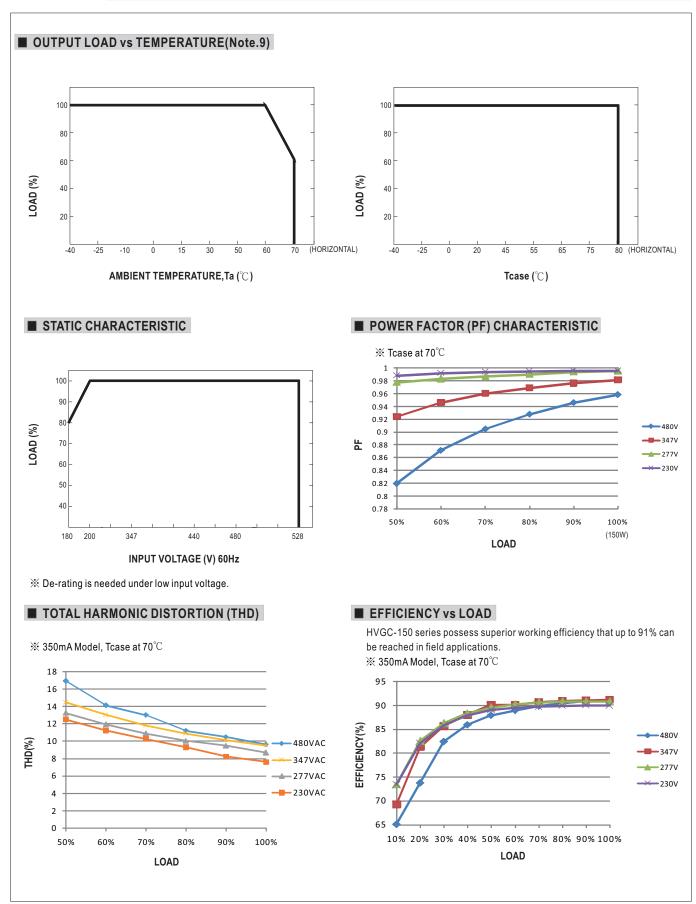




Note: 1. Min. dimming level is about 6% and the output current is not defined when 0% < Iout < 6%.

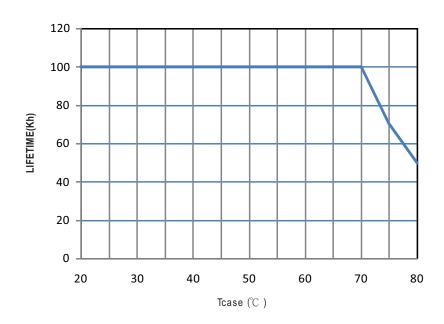
2. The output current could drop down to 0% when dimming input is about 0kΩ or 0Vdc, or 10V PWM signal with 0% duty cycle.

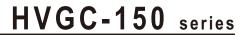




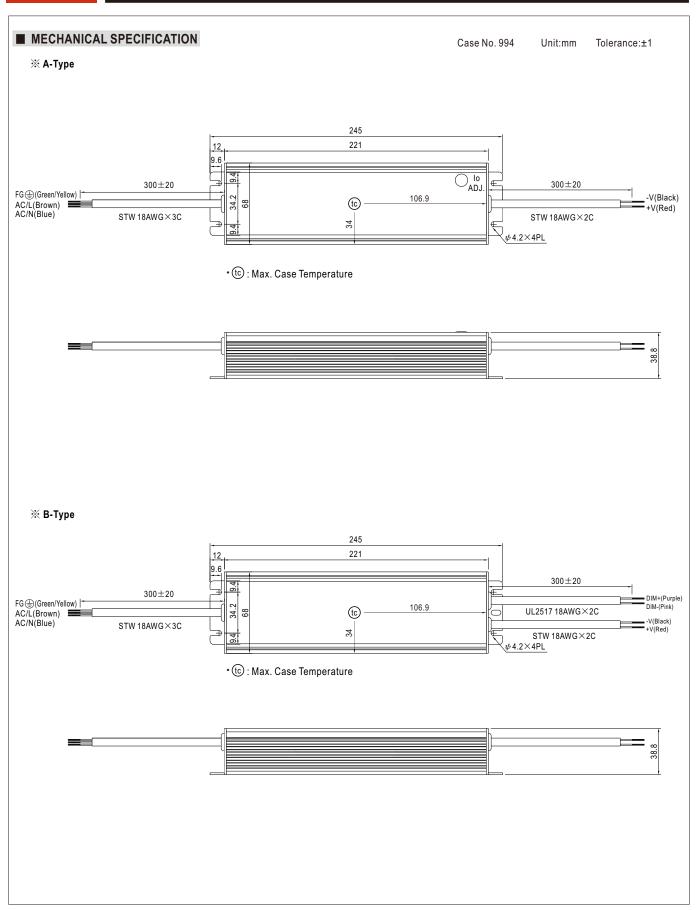


■ LIFE TIME

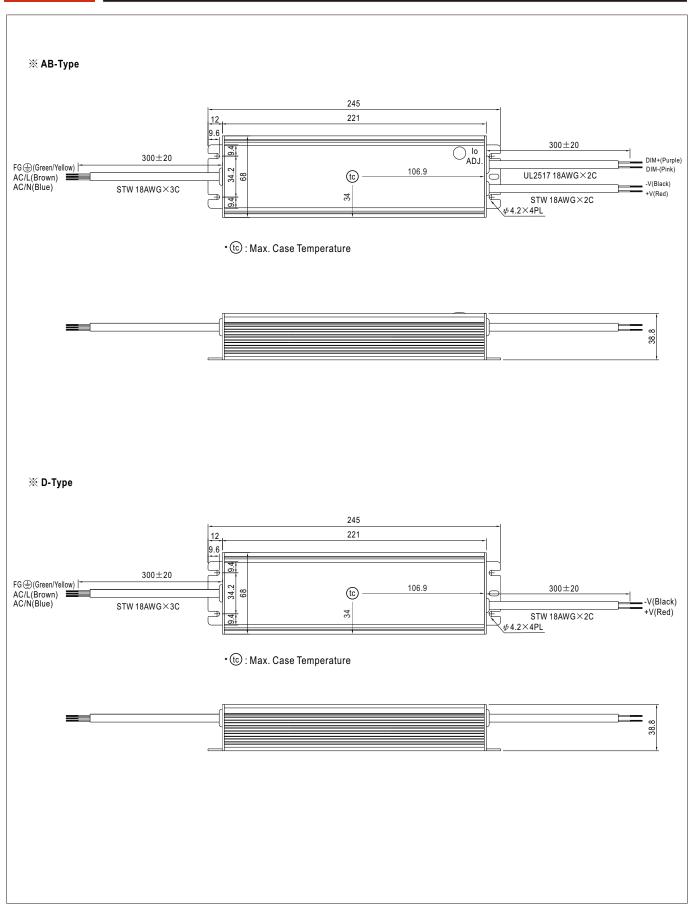












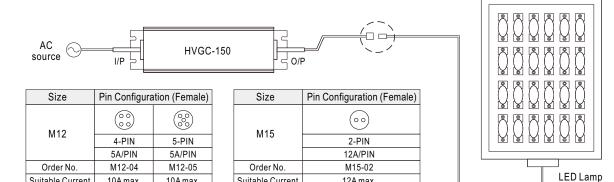


■ WATERPROOF CONNECTION

Waterproof connector

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

Suitable Current



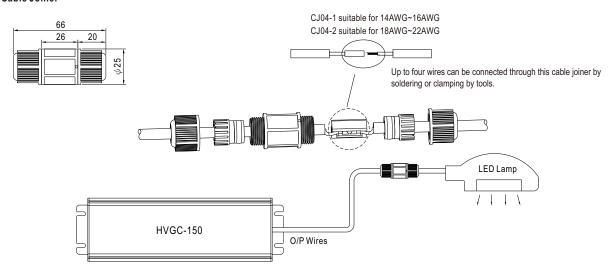
12A max

X Cable Joiner

Suitable Current

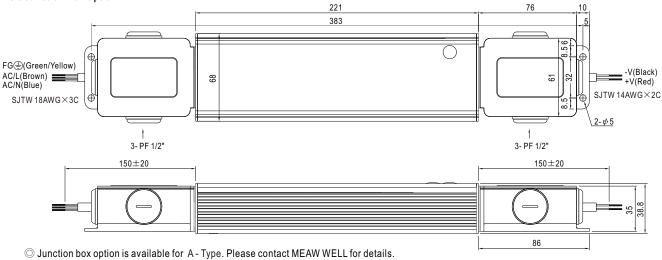
10A max.

10A max.



O CJ04 cable joiner can be purchased independently for user's own assembly. MEAN WELL order No.: CJ04-1, CJ04-2.





■ INSTALLATION MANUAL

Please refer to: http://www.meanwell.com/manual.html