





















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.

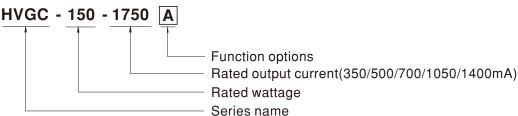
GTIN CODE

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	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
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	
ОИТРИТ	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	
	CURRENT ADJ. RANGE	Adjustable for A/AB-Typ	e only (via built-in poten	tiometer)	·		
	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	(Please refer to "STATIC CHARACTERISTIC" section)					
	FREQUENCY RANGE	47 ~ 63Hz					
		$PF \ge 0.98/230VAC$, $PF \ge 0.97/277VAC$, $PF \ge 0.95/347VAC$, $PF \ge 0.93/480VAC$ @full load					
	POWER FACTOR (Typ.)	(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)					
	TOTAL HARMONIO DIOTORTION	THD<20%(@ load≥50%/230VAC, 277VAC, 347VAC; @ load≥75%/480VAC)					
INPUT	TOTAL HARMONIC DISTORTION	(Please refer to "TOTAL HARMONIC DISTORTION (THD)" section)					
	EFFICIENCY (Typ.)	91%	91%	91%	90%	90%	
	AC CURRENT (Typ.)	0.5A / 347VAC 0.3	38A / 480VAC				
	INRUSH CURRENT (Typ.)	COLD START 35A(twidth=790µs 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					
	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed					
		430 ~ 460V	316 ~ 346V	226 ~ 247V	151 ~ 165V	113 ~ 124V	
PROTECTION	OVER VOLTAGE	Shut down o/p voltage	vith auto-recovery or re-				
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down					
ENVIRONMENT :	WORKING TEMP.	Tcase=-40 ~ +80°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)					
	MAX. CASE TEMP.	,					
	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 & 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 approvi					
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC					
	ISOLATION RESISTANCE	I/P-O/P. I/P-FG: O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH					
	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					
OTHERS	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/	,				
NOTE	All parameters NOT specially Please refer to "DRIVING M De-rating may be needed ur Length of set up time is mea Current ripple is measured b The driver is considered as a complete installation, the fina (as available on https://www. To fulfill requirements of the connected to the mains. This series meets the typical please refer to the warranty The ambient temperature of the connected to the mains.	ETHODS OF LED MOL nder low input voltages. asured at first cold start. between 50%~100% of it a component that will be al equipment manufactur meanwell.com//Upload// latest ErP regulation for al life expectancy of >50, statement on MEAN W	DULE". Please refer to "STATIC Turning ON/OFF the pon maximum voltage under operated in combinationers must re-qualify EMC PDF/EMI_statement_en. lighting fixtures, this LEI 000 hours of operation vELL's website at http://w	CHARACTERISTIC" sectiver supply may lead to increated power delivery. In with final equipment. Sin C Directive on the complete pdf) O driver can only be used I when Tcase, particularly (c) ww.meanwell.com.	cons for details. crease of the set up time. ce EMC performance will le installation again. behind a switch without pe	rmanently is about 80℃ or less.	

13. This product is intended for North America and EU lighting equipment application. Please contact your MEAN WELL sales if you have other using.

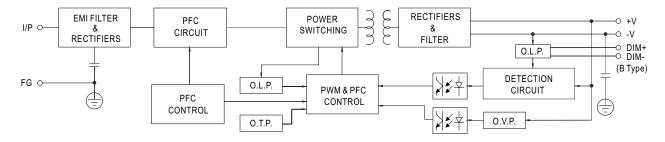
X Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

12. For A/AB type need to consider build in using to comply with Type HL application.



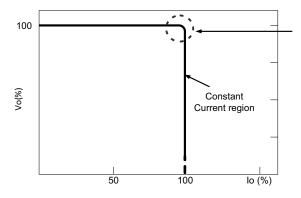
■ Block Diagram

PFC fosc: 130KHz PWM fosc: 70KHz



■ DRIVING METHODS OF LED MODULE

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



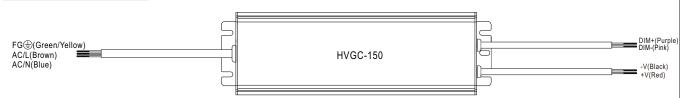
Typical output current normalized by rated current (%)

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.

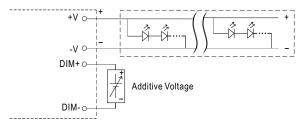


■ DIMMING OPERATION



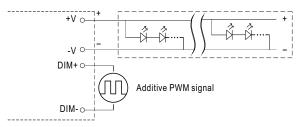
※ 3 in 1 dimming function (for B/AB-Type)

- 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



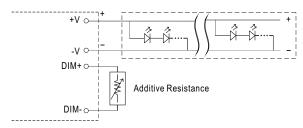
"DO NOT connect "DIM- to -V"

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

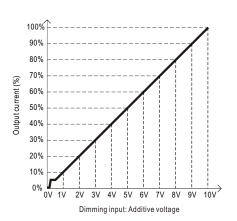


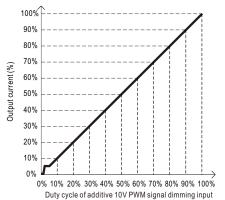
"DO NOT connect "DIM- to -V"

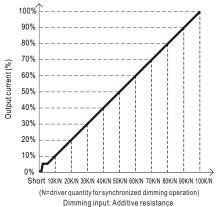
O Applying additive resistance:



"DO NOT connect "DIM- to -V"



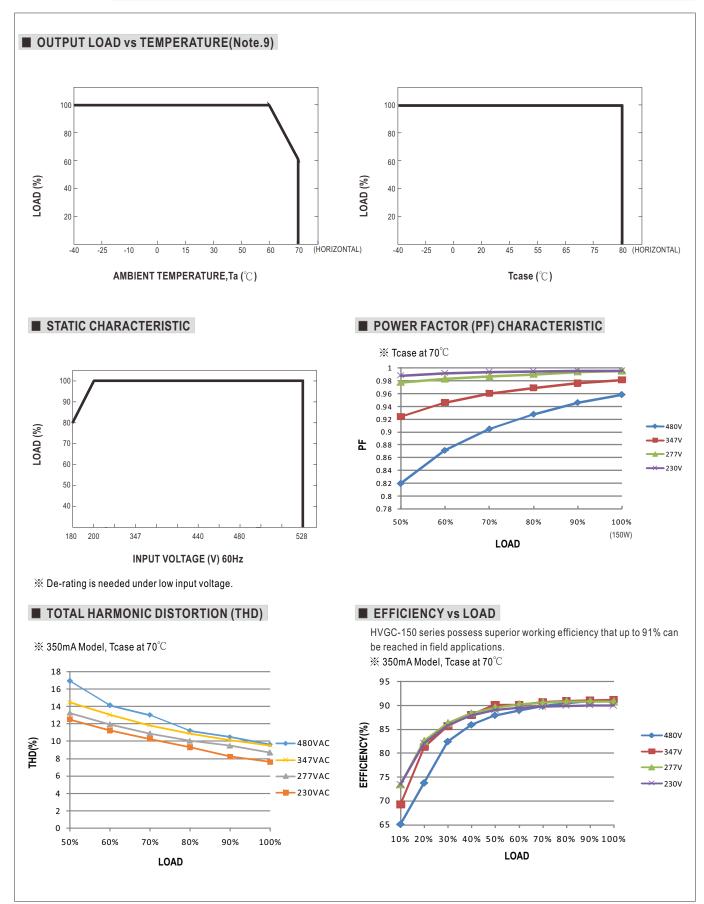




Note: 1. Min. dimming level is about 6% and the output current is not defined when 0% < Iout < 6%.

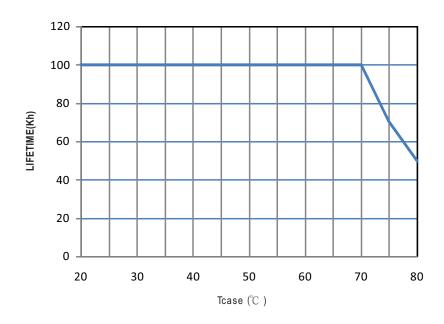
2. The output current could drop down to 0% when dimming input is about $0 \, \text{k} \, \Omega$ or $0 \, \text{Vdc}$, or $10 \, \text{VPWM}$ signal with $0 \, \text{%}$ duty cycle.





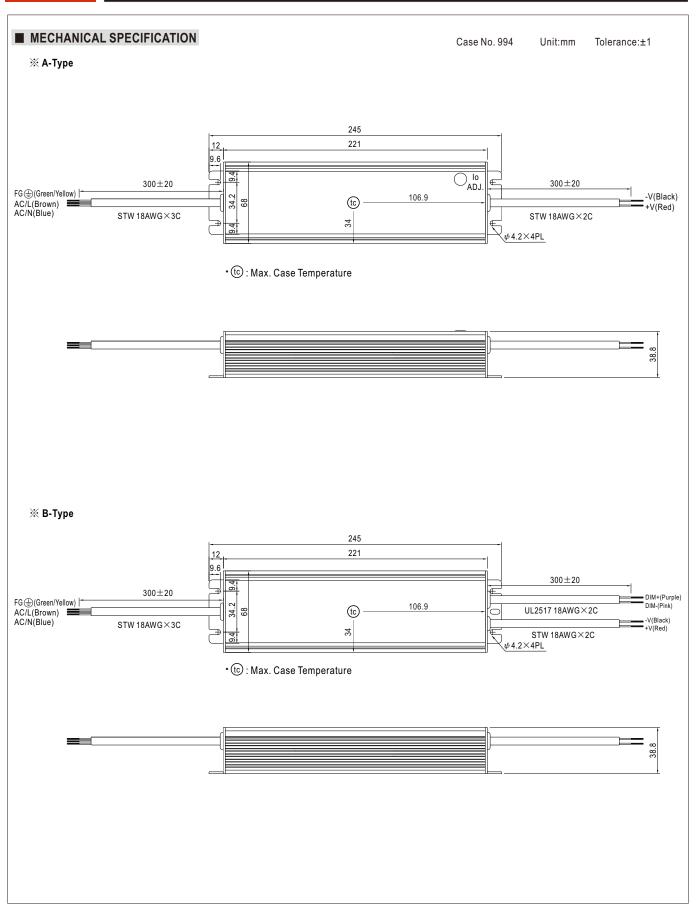


■ LIFE TIME

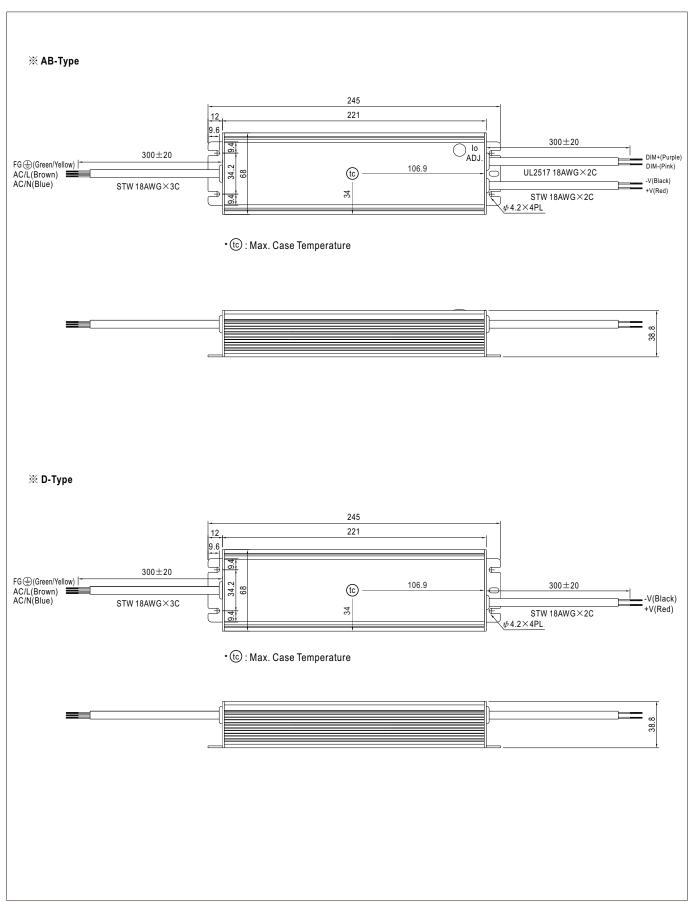












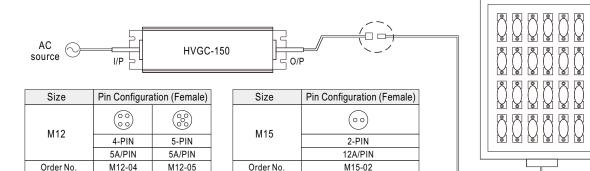
LED Lamp



■ 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.



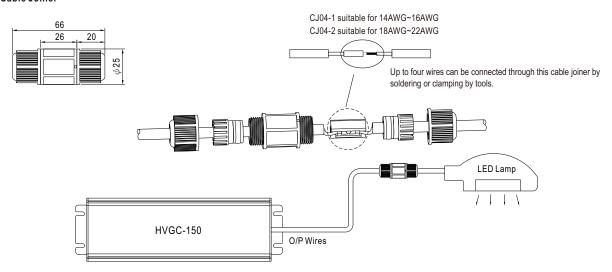
Suitable Current

X Cable Joiner

Suitable Current

10A max.

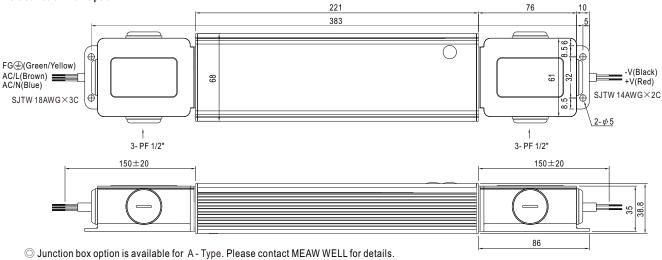
10A max.



12A max

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