





















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.

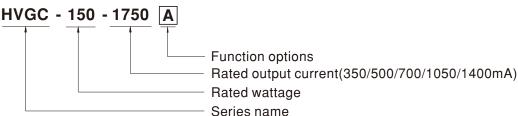
■ GTIN CODE

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

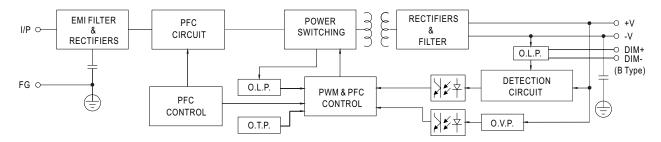
	HVGC-150-350	HVGC-150-500	HVGC-150-700	HVGC-150-1050	HVGC-150-1400	
RATED CURRENT	350mA	500mA	700mA	1050mA	1400mA	
RATED POWER	149.8W	150W	150.5W	150.15W	149.8W	
CONSTANT CURRENT REGION Note.2	42 ~ 428V	30 ~ 300V	21 ~ 215V	15 ~ 143V	12 ~ 107V	
CURRENT ARL BANGE	Adjustable for A/AB-Type	only (via built-in potention	meter)			
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					
VOLTAGE BANGE	180 ~ 528VAC 254VDC ~ 747VDC					
VOLIAGE 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 HARMONIC DISTORTION	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.)	0.5A / 347VAC 0.38	A / 480VAC				
INRUSH CURRENT (Typ.)	COLD START 35A(twidth=790µs measured at 50% lpeak) 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 a	fter fault condition is remo	oved		
	430 ~ 460V	316 ~ 346V	226 ~ 247V	151 ~ 165V	113 ~ 124V	
OVER VOLTAGE	Shut down o/p voltage wi	th auto-recovery or re-po	wer on to recovery			
OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down					
WORKING TEMP.	Tcase=-40 ~ +80°C (Plea	se refer to "OUTPUT LOA	AD vs TEMPERATURE" se	ection)		
MAX. CASE TEMP.	Tcase=+80°C					
WORKING HUMIDITY	20 ~ 95% RH non-conde	nsing				
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	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-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,					
EMIC EMISSION	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-Earth 4KV, Line-Line 2KV), EAC TP TC 020					
EMC IMMUNITY			· · · - · · · · · · · · · · · · ·			
EMC IMMUNITY MTBF	Line-Line 2KV), EAC TP	TC 020	179.5K hrs min. MIL-H	DBK-217F (25°C)		
	Line-Line 2KV), EAC TP	ΓC 020 ordia SR-332 (Bellcore) ;		DBK-217F (25°C)		
MTBF	Line-Line 2KV), EAC TP 1755.7K hrs min. Telc	TC 020 ordia SR-332 (Bellcore) ;		DBK-217F (25°C)		
MTBF DIMENSION	Line-Line 2KV), EAC TP 1755.7K hrs min. Telc 245*68*38.8mm (L*W*H 1.24Kg; 12pcs/15.9Kg/0.	TC 020 ordia SR-332 (Bellcore) ; 78CUFT	179.5K hrs min. MIL-H	, ,		
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X Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



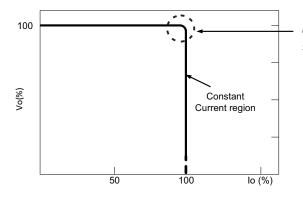
■ Block Diagram

PFC fosc: 130KHz PWM fosc: 70KHz



■ DRIVING METHODS OF LED MODULE

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



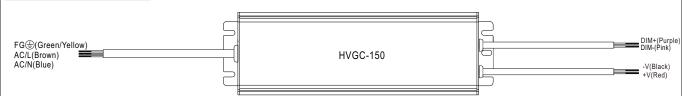
Typical output current normalized by rated current (%)

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.

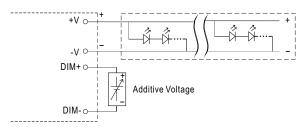


■ DIMMING OPERATION



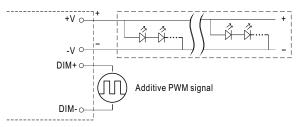
※ 3 in 1 dimming function (for B/AB-Type)

- 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



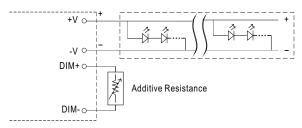
"DO NOT connect "DIM- to -V"

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

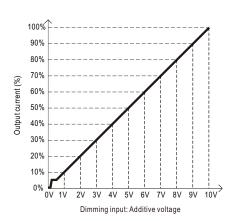


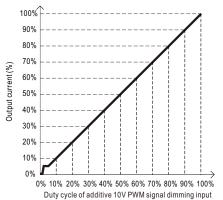
"DO NOT connect "DIM- to -V"

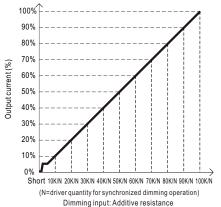
O Applying additive resistance:



"DO NOT connect "DIM- to -V"



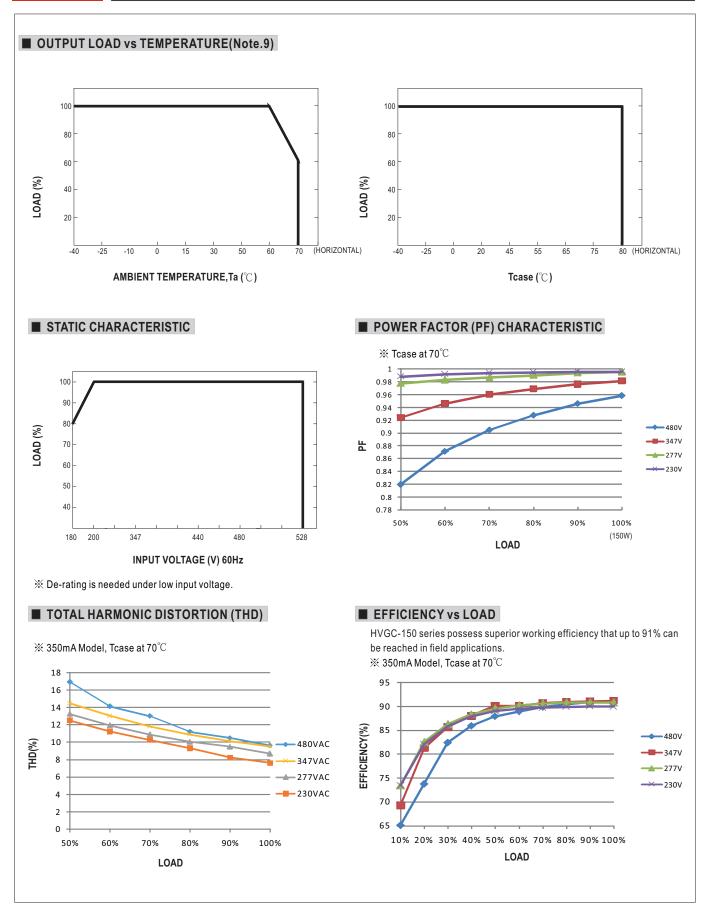




Note: 1. Min. dimming level is about 6% and the output current is not defined when 0% < Iout < 6%.

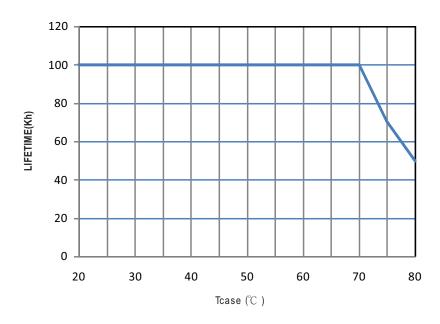
2. The output current could drop down to 0% when dimming input is about 0kΩ or 0Vdc, or 10V PWM signal with 0% duty cycle.



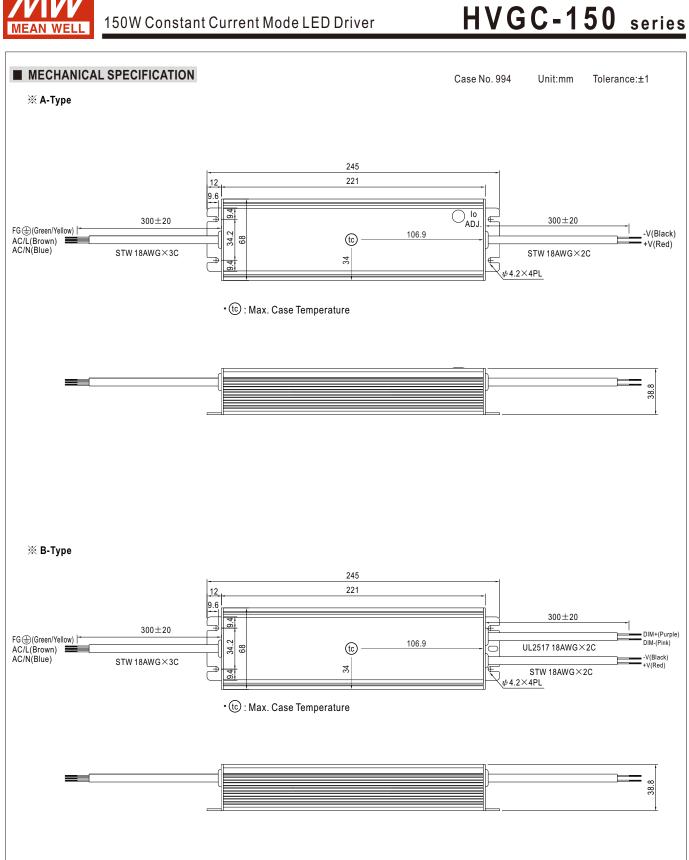




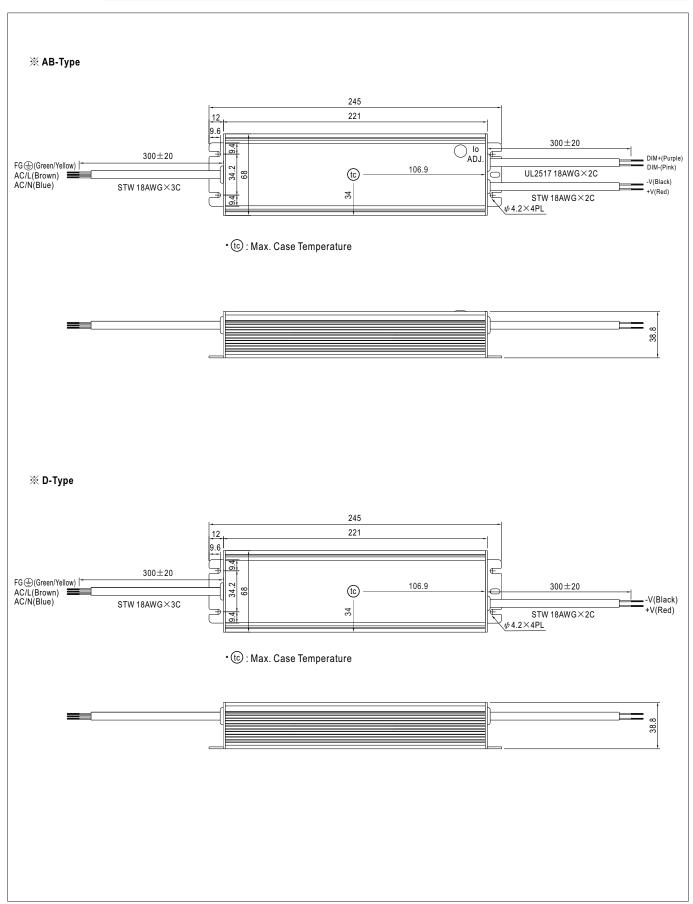
■ LIFE TIME











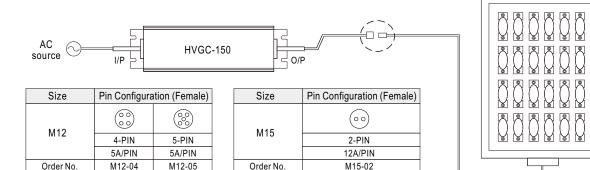
LED Lamp



■ 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.



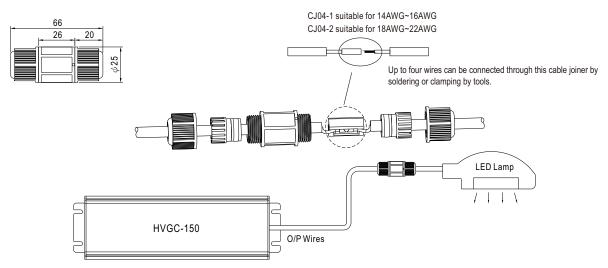
Suitable Current

X Cable Joiner

Suitable Current

10A max.

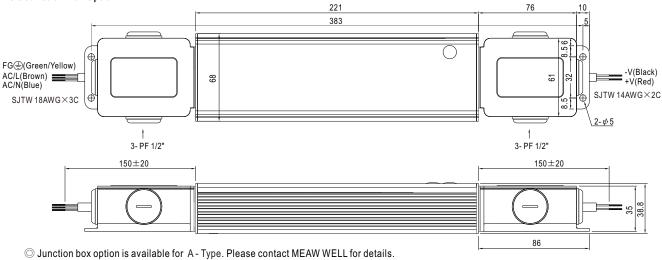
10A max.



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