



















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

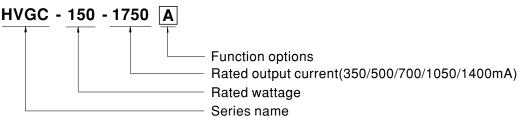
Applications

- · 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.

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

150W Constant Current Mode LED Driver

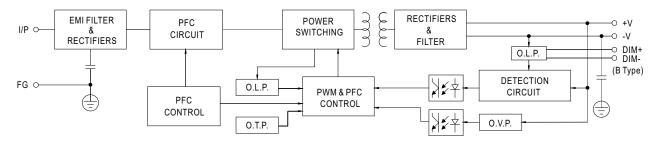
SPECIFICATION

5V D0mA F≥0.93/480VAC @ section) Dad≥75%/480VA section) VAC; Per NEMA 41 type C) at 480VAC	C)	1400mA 149.8W 12~107V 840~1400mA			
5V DOMA F≥0.93/480VAC @ section) Doad≥75%/480VA section) VAC; Per NEMA 41	15 ~ 143V 630 ~ 1050mA Dfull load C)	12 ~ 107V 840 ~ 1400mA			
F≥0.93/480VAC @section) Dad≥75%/480VA section) VAC; Per NEMA 41	630 ~ 1050mA Defull load C) 90%	840 ~ 1400mA			
= ≥ 0.93/480VAC @ section) pad ≥ 75%/480VA section) VAC; Per NEMA 41	©full load C)				
= ≥ 0.93/480VAC @ section) pad ≥ 75%/480VA section) VAC; Per NEMA 41	©full load C)				
section) pad ≥ 75%/480VA section) VAC; Per NEMA 41	C)	90%			
section) pad ≥ 75%/480VA section) VAC; Per NEMA 41	C)	90%			
section) pad ≥ 75%/480VA section) VAC; Per NEMA 41	C)	90%			
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section) pad ≥ 75%/480VA section) VAC; Per NEMA 41	C)	90%			
oad≥75%/480VA section) VAC; Per NEMA 41	90%	90%			
vac; Per NEMA 41	90%	90%			
VAC; Per NEMA 41		90%			
		90%			
	0				
	0				
type C) at 480VAC					
	;				
<0.75mA / 480VAC					
ondition is remove	d				
247V	151 ~ 165V	113 ~ 124V			
Shut down o/p voltage with auto-recovery or re-power on to recovery					
rature goes down	1				
WORKING TEMP. Tcase=-40 ~ +80°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)					
Tcase=+80°C					
20 ~ 95% RH non-condensing					
-40 ~ +80°C, 10 ~ 95% RH					
±0.03%/°C (0~60°C)					
X, Y, Z axes					
UL8750(type"HL"), CSA C22.2 No. 250.0-08, TUV EN61347-1, EN61347-2-13, EAC TP TC 004, IP65 or IP67 approved					
I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC					
I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/70% RH					
Compliance to EN55015, EN61000-3-2 Class C (@ load ≥ 50%); EN61000-3-3, FCC part 15 class B, EAC TP TC 020					
try level (surge imm	nunity Line-Earth 4KV, Lir	ne-Line 2KV), EAC TP TC 020			
 All parameters NOT specially mentioned are measured at 347VAC input, rated current and 25°C of ambient temperature. 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% x100% of maximum voltage under rated power delivery.					
 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 					
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(6500ft) 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					
	articularly (b) particularly (com.	rature goes down PERATURE" section) X, Y, Z axes I, EN61347-2-13, EAC TP TC 004, IP65 of a RH Ob); EN61000-3-3, FCC part 15 class B, ry level (surge immunity Line-Earth 4KV, Line and 25°C of ambient temperature. ERISTIC" sections for details. The complete installation again. The complete installation again.			



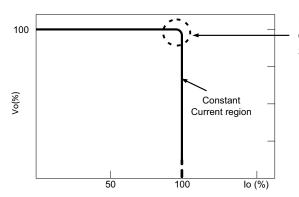
■ Block Diagram

PFC fosc: 130KHz PWM fosc: 70KHz



■ DRIVING METHODS OF LED MODULE

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



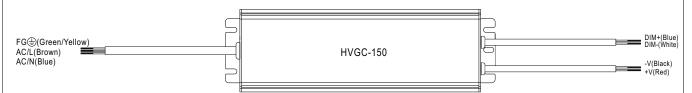
Typical output current normalized by rated current (%)

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.

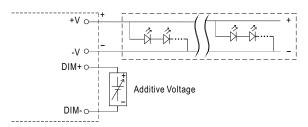


■ DIMMING OPERATION



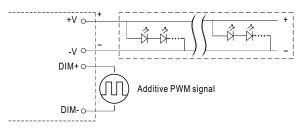
imes 3 in 1 dimming function (for B/AB-Type)

- 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



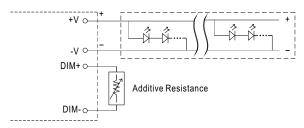
"DO NOT connect "DIM- to -V"

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

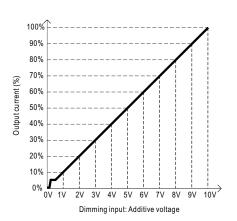


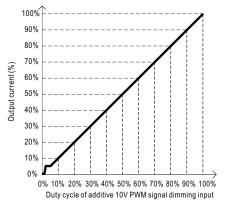
"DO NOT connect "DIM- to -V"

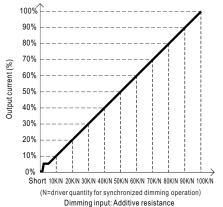
O Applying additive resistance:



"DO NOT connect "DIM- to -V"



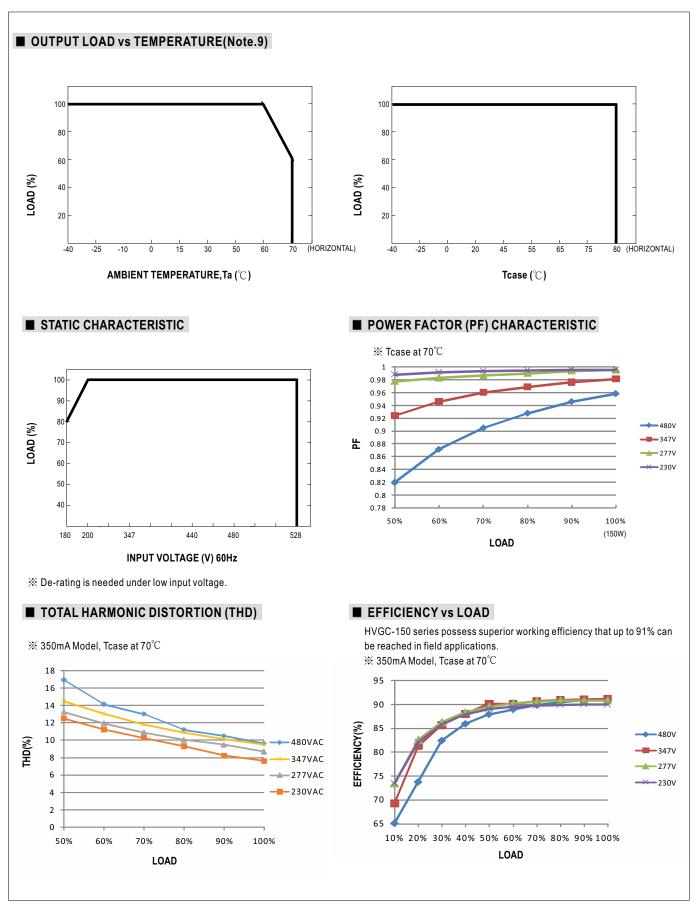




Note: 1. Min. dimming level is about 6% and the output current is not defined when 0% < Iout < 6%.

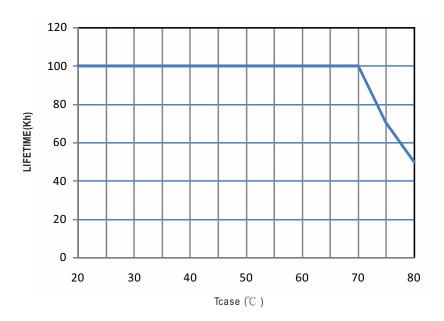
2. The output current could drop down to 0% when dimming input is about 0kΩ or 0Vdc, or 10V PWM signal with 0% duty cycle.





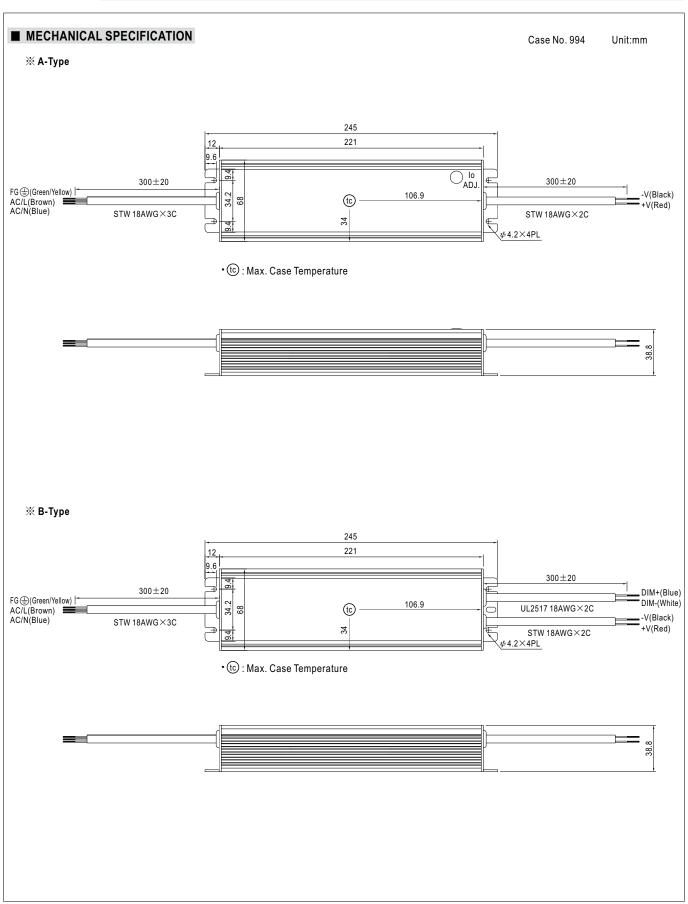


■ LIFE TIME

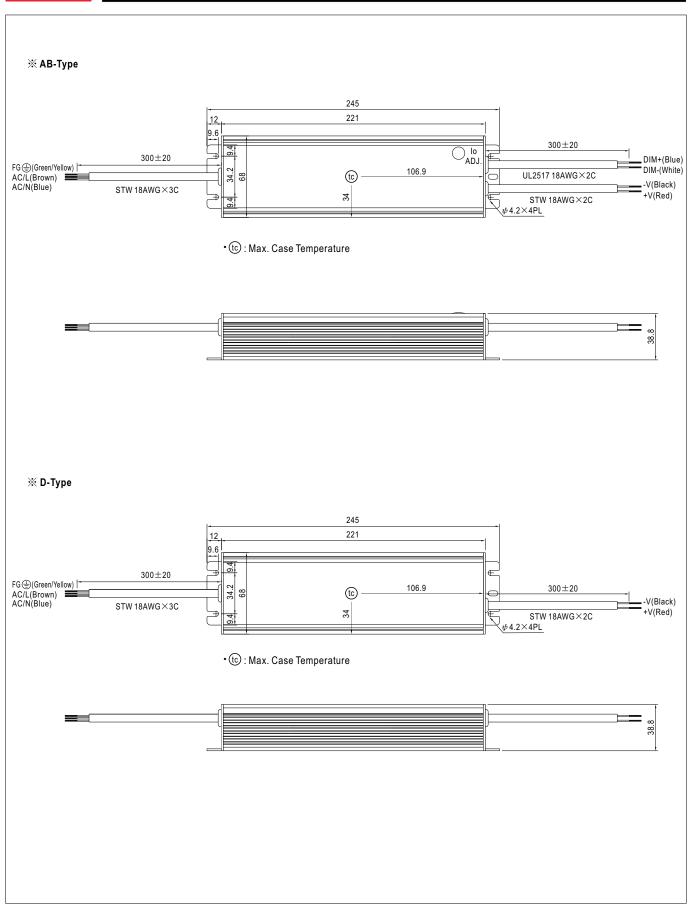










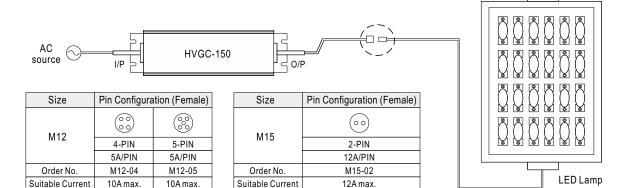




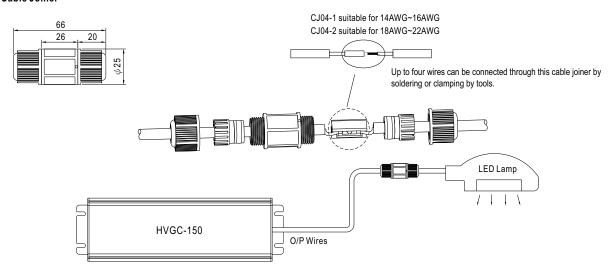
■ WATERPROOF CONNECTION

※ Waterproof connector

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

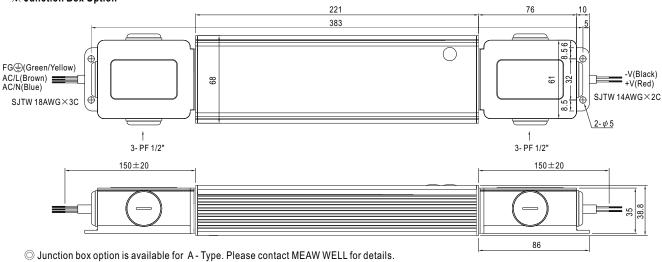


X Cable Joiner



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

※ Junction Box Option



■ INSTALLATION MANUAL

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