









#### 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

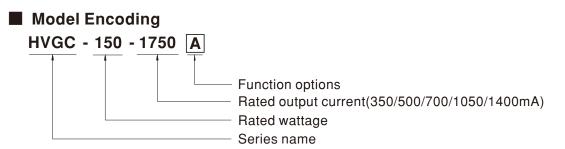
#### Applications

- · 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                             |  |  |
| OUTPUT      | CONSTANT CURRENT REGION Note.2   | 42 ~ 428V  | 30 ~ 300V   | 21~215V   | 15 ~ 143V  | 12~107V                            |  |  |
|             |  | 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%  |   |   |  |                                    |  |  |
|             |  | 1 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<br>(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)  |   |   |  |                                    |  |  |
|             |  |  |   |   |  |                                    |  |  |
|             | TOTAL HARMONIC DISTORTION  | THD<20%(@ load≥50%/230VAC, 277VAC, 347VAC; @ load≥75%/480VAC)<br>(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.)  |  | 0.5A / 34 / VAC 0.38A / 480 VAC<br>COLD START 35A(twidth=790µ/s measured at 50% Ipeak) at 480 VAC; Per NEMA 410   |   |  |                                    |  |  |
|             |  | CULD START SDA(IWIDD=790//S THEASURED at 50% Ipeak) at 460VAC; PER NEMA 410  |   |   |  |                                    |  |  |
|             | MAX. No. of PSUs on 16A<br>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 40.04                          |  |  |
|             | OVER VOLTAGE   | 430 ~ 460V   | 316~346V  | 226~247V  | 151 ~ 165V   | 113 ~ 124V                         |  |  |
|             |  | Shut down o/p voltage v  | , ,   |   |  |                                    |  |  |
|             | 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.  |  |   |   |  |                                    |  |  |
|             | 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   | 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 a   |   |   |  |                                    |  |  |
| 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  |   |   |  |                                    |  |  |
|             | 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   | ł)  |   |  |                                    |  |  |
|             | 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 b</li> <li>Current ripple is measured b</li> <li>The driver is considered as a complete installation, the fina (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 11. For any application note an https://www.meanwell.com/</li> <li>For A/AB type need to com</li> </ol> | ETHODS OF LED MOE<br>nder low input voltages. I<br>asured at first cold start.<br>between 50%~100% of r<br>a component that will be<br>al equipment manufactur<br>.meanwell.com//Upload/f<br>latest ErP regulation for<br>I life expectancy of >50,0<br>statement on MEAN WE<br>lerating of 3.5°C/1000m<br>id IP water proof functior<br>'Upload/PDF/LED_EN.pc | ULE".<br>Please refer to "STATIC<br>Turning ON/OFF the po-<br>naximum voltage under<br>operated in combinatio<br>ers must re-qualify EMC<br>PDF/EMI_statement_en.<br>ighting fixtures, this LEI<br>00 hours of operation v<br>ELL's website at http://w<br>with fanless models and<br>installation caution, ple<br>ff<br>mply with Type HL appl | CHARACTERISTIC" sect<br>wer supply may lead to in<br>rated power delivery.<br>n with final equipment. Sin<br>C Directive on the complete<br>.pdf)<br>D driver can only be used<br>when Tcase, particularly (to<br>ww.meanwell.com.<br>d of 5°C/1000m with fan m<br>tase refer our user manual<br>ication. | ions for details.<br>crease of the set up time.<br>e installation again.<br>behind a switch without pe<br>) point (or TMP, per DLC),<br>nodels for operating altitude<br>before using. | rmanently<br>is about 80℃ or less. |  |  |



#### 150W Constant Current Mode LED Driver

# HVGC-150 series

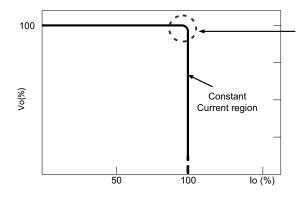
-0 +V

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

(B Type)

Block Diagram PFC fosc : 130KHz PWM fosc : 70KHz 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 æ CONTROL 0.V.P. 0.T.P. \$ DRIVING METHODS OF LED MODULE

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

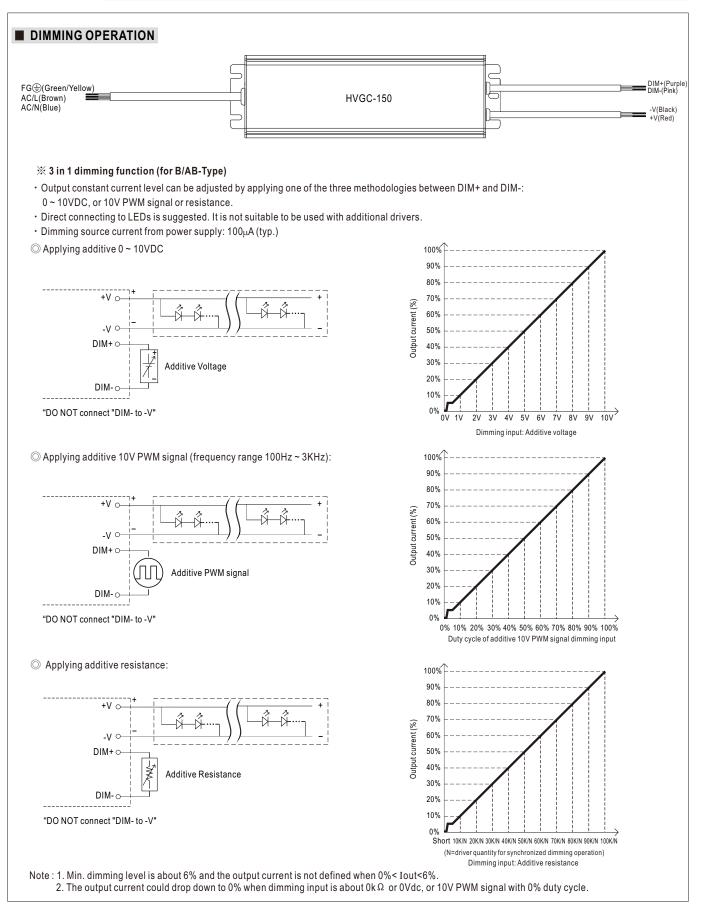


Typical output current normalized by rated current (%)

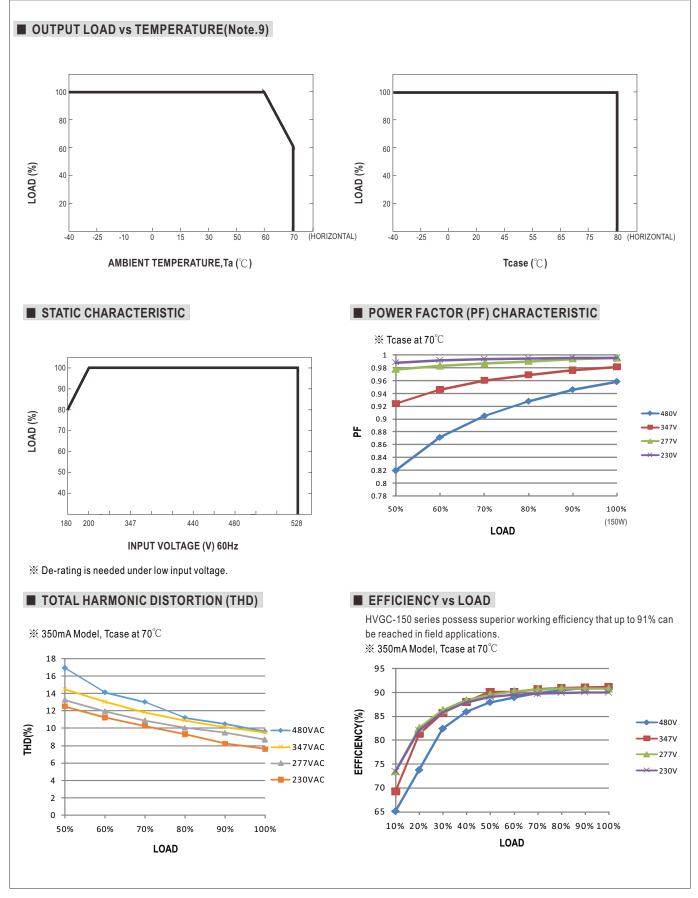
In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEAN WELL.







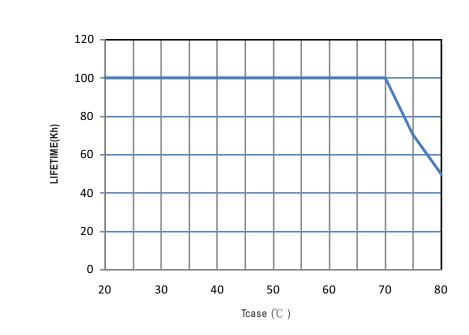




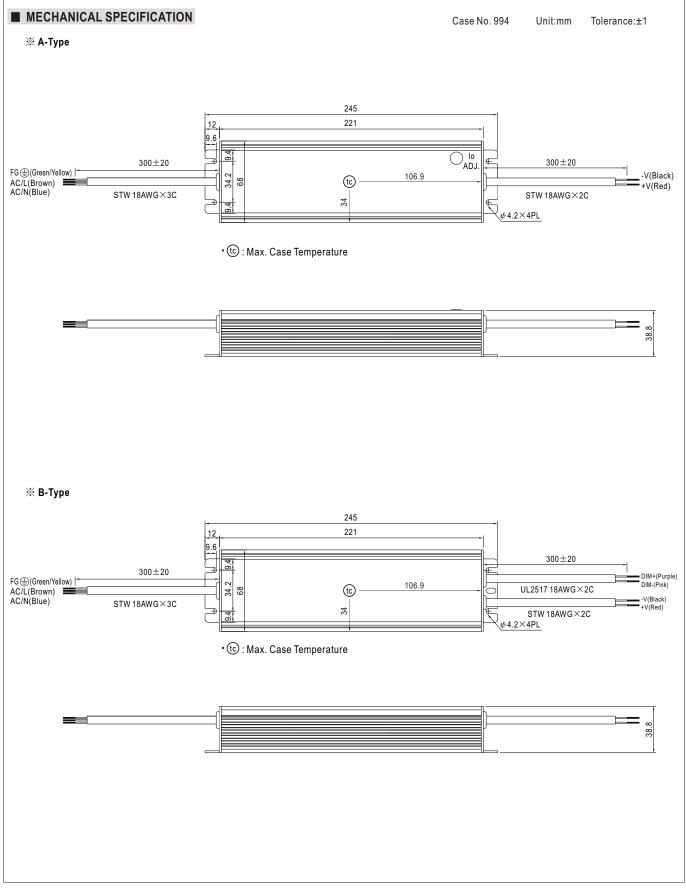
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# HVGC-150 series

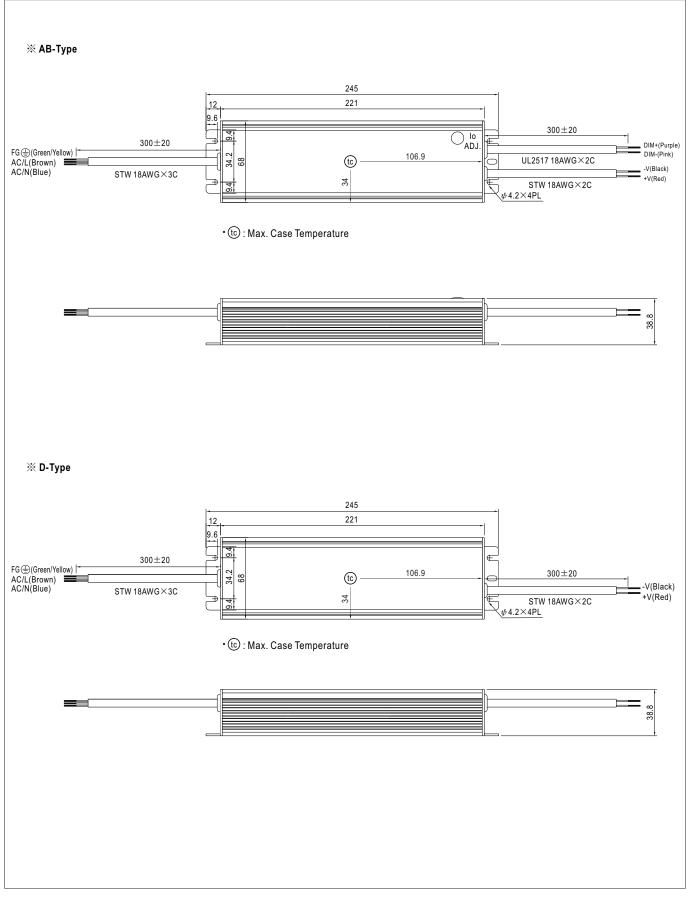
LIFE TIME













#### 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.

