







Features

- Wide input range 180 ~ 528VAC
- Constant Voltage + Constant Current mode output
- Metal housing with Class I design
- Built-in active PFC function
- · Class 2 power unit
- · IP67 / IP65 rating 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



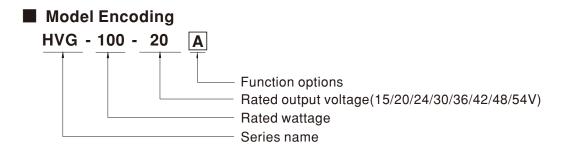
Applications

- · LED street lighting
- LED high-bay lighting
- Parking space lighting
- LED fishing lamp
- LED greenhouse lighting
- Type "HL" for use in Class I , Division 2 hazardous (Classified) location.

GTIN CODE

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

HVG-100 series is a 100W AC/DC LED driver featuring the dual mode constant voltage and constant current output. HVG-100 operates from 180~528VAC and offers models with different rated voltage ranging between 15V and 54V. Thanks to the high efficiency up to 91%, with the fanless design, the entire series is able to operate for -40° C ~ $+90^{\circ}$ 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. HVG-100 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	Io and Vo 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 and Vo adjustable through built-in potentiometer & 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock
D	IP67	Built-in Smart timer dimming function by user request.	By request

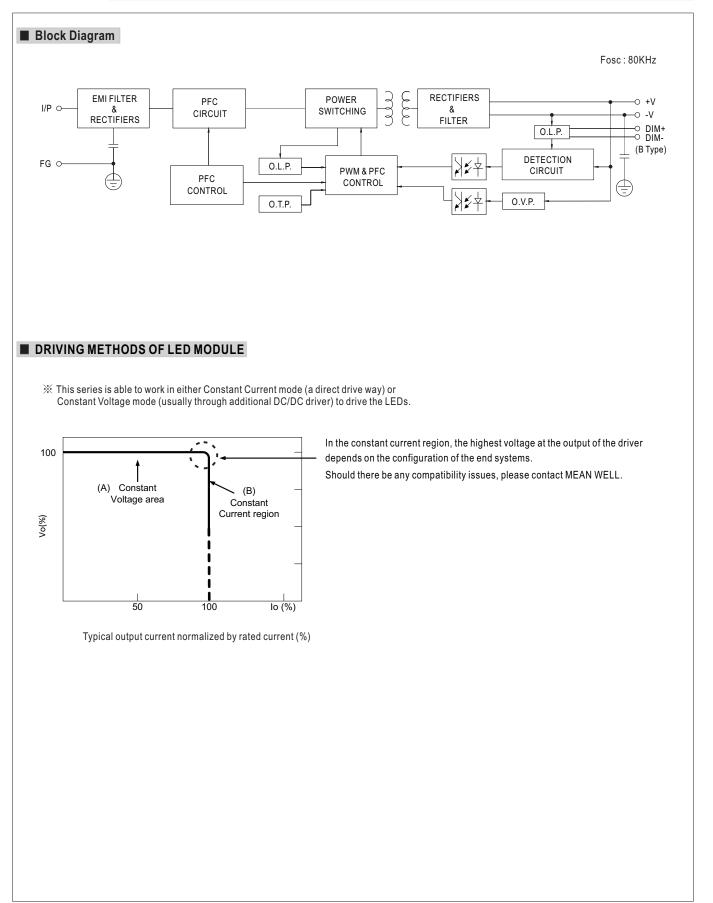
File Name: HVG-100-SPEC 2024-10-11



SPECIFICATION

MODEL		HVG-100-15	HVG-100-20	HVG-100-24	HVG-100-30	HVG-100-36	HVG-100-42	HVG-100-48	HVG-100-54	
	DC VOLTAGE	15V	20V	24V	30V	36V	42V	48V	54V	
OUTPUT	CONSTANT CURRENT REGION Note.4	9~15V	10~20V	12~24V	15~30V	18~36V	21~42V	24~48V	27~54V	
	RATED CURRENT	5A	4.8A	4A	3.2A	2.65A	2.28A	2A	1.77A	
	RATED POWER	75W	96W	96W	96W	95.4W	95.76W	96W	95.58W	
	RIPPLE & NOISE (max.) Note.2		150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	
						20011179.9	20011179.9	20011179.9	200111000	
	VOLTAGE ADJ. RANGE	Adjustable for A/AB-Type only (via the built-in potentiometer) 13.5 ~ 17V 17 ~ 22V 22 ~ 27V 27 ~ 33V 33 ~ 40V 38 ~ 46V 43 ~ 53V 49 ~ 58V								
	CURRENT ADJ. RANGE	Adjustable for A/AB-Type only (via the built-in potentiometer) 2.75 ~ 5A 2.64 ~ 4.8A 2.2 ~ 4A 1.76 ~ 3.2A 1.45 ~ 2.65A 1.25 ~ 2.28A 1.1 ~ 2A 0.97 ~ 1.77A								
		2.75~5A	2.64 ~ 4.8A	2.2~4A	1.76 ~ 3.2A		1.25 ~ 2.28A	1.1~2A	0.97 ~ 1.77A	
	VOLTAGE TOLERANCE Note.3	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION	±1.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	SETUP, RISE TIME Note.6	500ms, 80ms /	230VAC, 347VA	C, 480VAC						
	HOLD UP TIME (Typ.)	30ms/347VAC,	480VAC							
INPUT		180 ~ 528VAC 254VDC ~ 747VDC								
	VOLTAGE RANGE Note.5	(Please refer to "STATIC CHARACTERISTIC" section)								
	FREQUENCY RANGE	47 ~ 63Hz								
		PF≥0.98/230VAC, PF≥0.98/277VAC, PF≥0.97/347VAC, PF≥0.93/480VAC @full load								
	POWER FACTOR (IVD.)									
		(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section) THD< 20%(@ load ≥ 50%/230VAC, 277VAC, 347VAC [@ load ≥ 60% only for 15V model]; @ load ≥ 75%/480VAC)								
	TOTAL HARMONIC DISTORTION						sv modelj, @ io	au≤15%/460VF	AC)	
					TION (THD)" sec					
	EFFICIENCY (Typ.)	89%	90%	91%	91%	90.5%	90.5%	91%	91%	
	AC CURRENT (Typ.)	0.38A/347VA0								
	INRUSH CURRENT (Typ.)	COLD START 2	5A(twidth=900µs r	neasured at 50%	Ipeak) at 480VAC	; Per NEMA 410				
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	5 units (circuit breaker of type B) / 8 units (circuit breaker of type C) at 480VAC								
	LEAKAGE CURRENT	<0.75mA/480	/AC							
PROTECTION		95 ~ 108%								
	OVER CURRENT	Constant current limiting, recovers automatically after fault condition is removed								
	SHORT CIRCUIT									
	SHOKT CIRCUIT	$\begin{array}{c} \hline 18 \sim 21V & 23 \sim 27V & 28 \sim 34V & 34 \sim 38V & 41 \sim 46V & 47 \sim 53V & 54 \sim 60V & 59 \sim 65V \end{array}$								
	OVER VOLTAGE						47 3 3 3 0	54 * 00 V	33 001	
		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								
ENVIRONMENT	WORKING TEMP.	Tcase=-40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)								
	MAX. CASE TEMP.	Tcase=+90°C								
	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	UL8750(type"HL"), CSA C22.2 No. 250.0-08, EAC TP TC 004, IP65 or IP67 approved								
	WITHSTAND VOLTAGE		3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC							
SAFETY &	ISOLATION RESISTANCE									
EMC	EMC EMISSION	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% load,@ load≥60% only for 15V model); EN61000-3-3, FCC Part 15 Subpart B.EAC TP TC 020								
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, light industry level (surge immunity Line-Earth 4KV, Line-Line 2KV), EAC TP TC 020								
	MTBF			SD-332 (Dolloo	(a) : 174 0K brar	nin MII Un	K 217E (25°C)			
OTHERS		1810.5K hrs m		SIX-SSZ (BellCO	re) ; 174.9K hrs r	IIIII. MIL-HDB	K-217F (25℃)			
	DIMENSION	236*68*38.8mr	· · ·	т						
	PACKING	2 .	15.2Kg/0.74CUF			~				
NOTE	 All parameters NOT specially mentioned are measured at 347VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance : includes set up tolerance, line regulation and load regulation. Please refer to "DRIVING METHODS OF LED MODULE". De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. 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. (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (to point (or TMP, per DLC), is about 80°C or less. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com. 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(6500f 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/Le_LN.pdf For A/AB type need to consider build in using to comply with Type HL application. XeroAuct Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 									

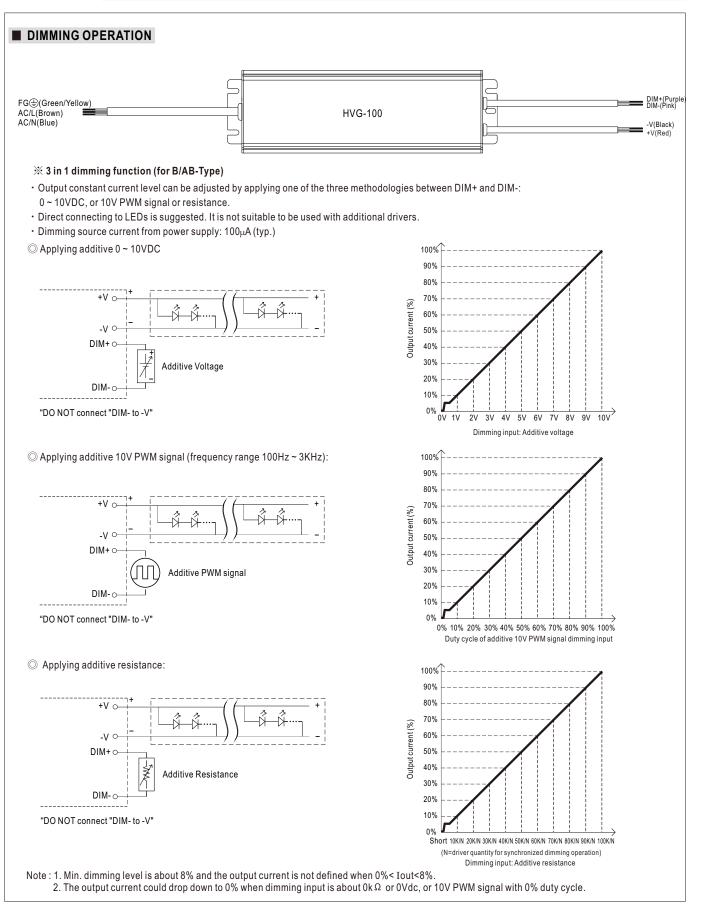




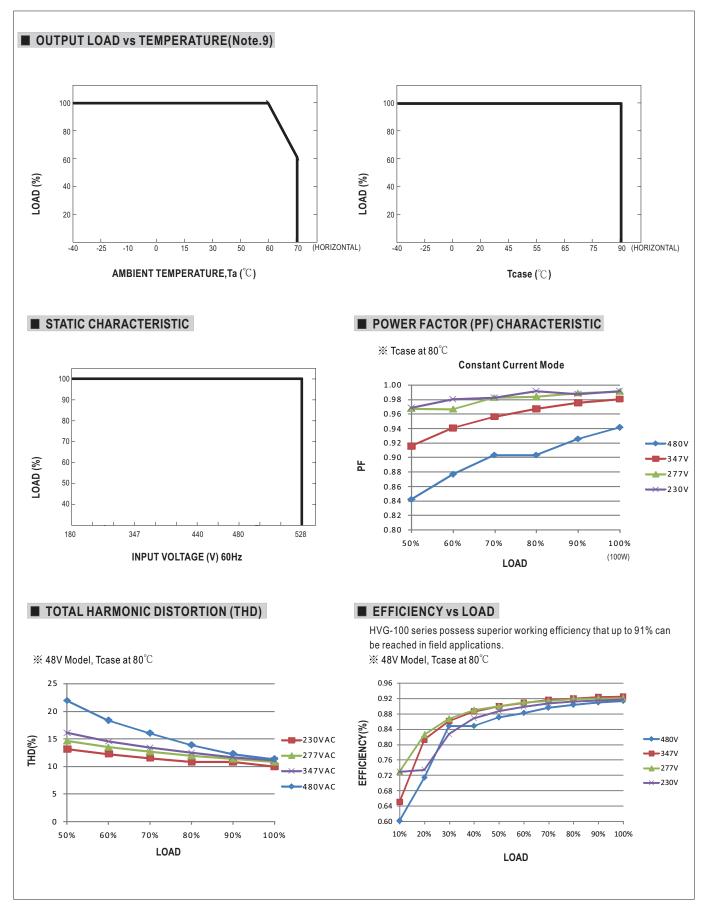


100W Constant Voltage + Constant Current LED Driver

HVG-100 series

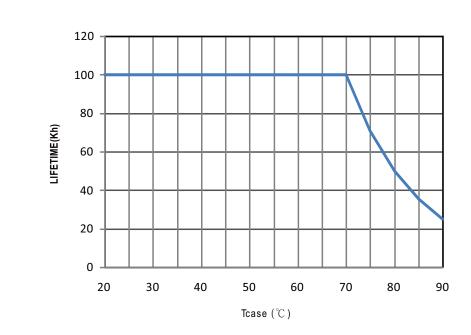




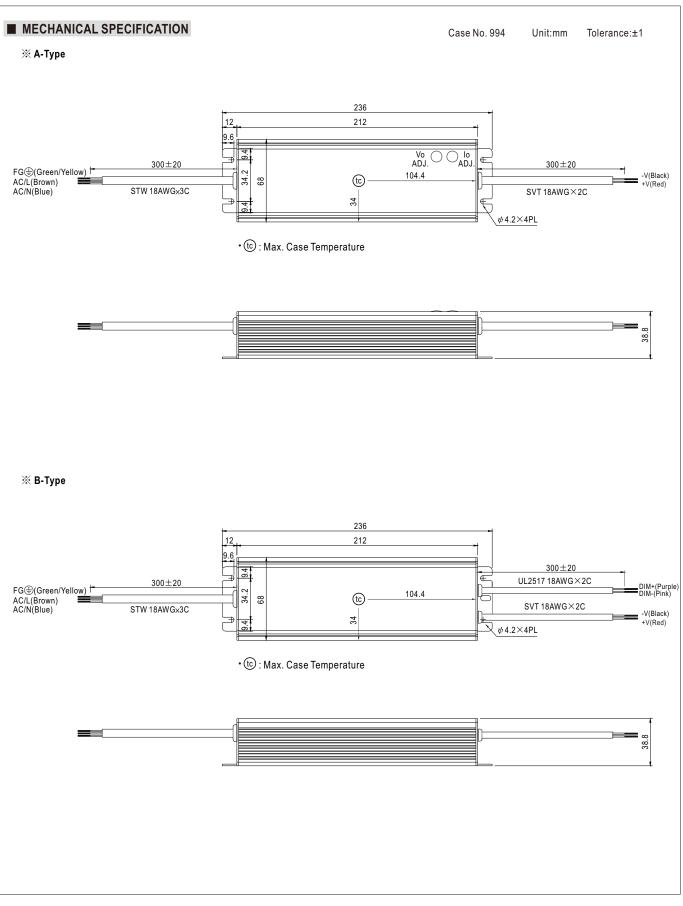




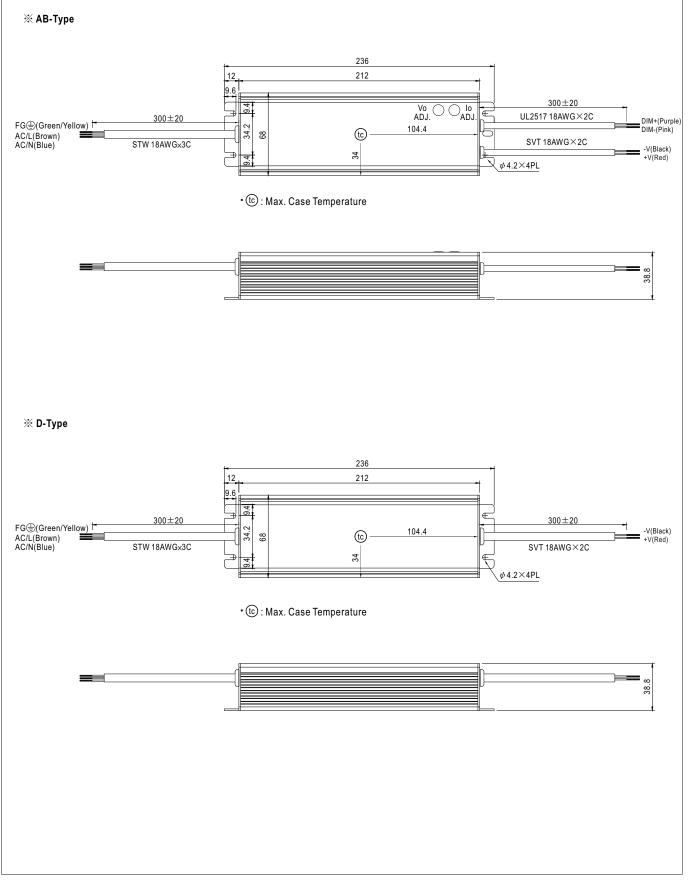
LIFE TIME













HVG-100 series

WATERPROOF CONNECTION

$\divideontimes {\rm Waterproof\, connector}$

Waterproof connector can be assembled on the output cable of HVG-100 to operate in dry/wet/damp or outdoor environment.

