







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



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 Adjustable for A(AD Time only of the built in a starting startin								
	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	
	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								
	POWER FACTOR (Typ.)	$PF \ge 0.98/230VAC, PF \ge 0.98/277VAC, PF \ge 0.97/347VAC, PF \ge 0.93/480VAC @full load$								
		(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						5V model]; @ lo	ad≧75%/480VA	AC)	
				1	TION (THD)" sec					
	EFFICIENCY (Typ.)	89%	90%	91%	91%	90.5%	90.5%	91%	91%	
	AC CURRENT (Typ.)	0.38A/347VA0	0.28A/48	OVAC						
	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								
		Constant current limiting, recovers automatically after fault condition is removed								
	SHORT CIRCUIT	$18 \sim 21V \qquad 23 \sim 27V \qquad 28 \sim 34V \qquad 34 \sim 38V \qquad 41 \sim 46V \qquad 47 \sim 53V \qquad 54 \sim 60V \qquad 59 \sim 65V$								
	OVER VOLTAGE						47~550	54~000	59~05V	
		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	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC								
SAFETY &										
EMC	ISOLATION RESISTANCE	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,								
	EMC EMISSION	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							2KV),	
	MTDE			OD 222 /Dallas	a) 174 01/ hrs		K 017E (05°C)			
OTHERS	MTBF	1810.5K hrs m		SK-332 (Belicoi	re) ; 174.9K hrs r	mn. MIL-HDB	K-217F (25℃)			
	DIMENSION	236*68*38.8mr	· · /	-						
	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 (b) 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/LED_EN.pdf For A/AB type need to consider build in using to comply with Type HL application. Yeroduct 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







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







HVG-100 series

WATERPROOF CONNECTION

$\% \ {\rm Waterproof} \ {\rm connector}$

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

