

Наличие и актуальные цены на

HVG-100-48B

https://www.mean-well.ru/store/HVG-100-48B/









■ 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

IP65 IP67 F [H c Type HL us FC

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.

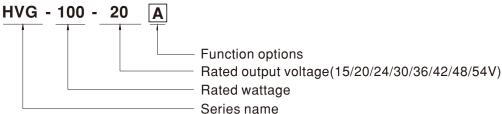
■ GTIN CODE

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

Description

HVG-100 series is a 100W AC/DC LED driver featuring the dual mode constant voltage and constant current output. HVG-100 operates from $180\sim528$ VAC 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 $-40^{\circ}\text{C} \sim +90^{\circ}\text{C}$ 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.

■ Model Encoding



Type	IP Level	Function	Note
Α	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

100W Constant Voltage + Constant Current LED Driver

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
	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	150mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p
	VOLTAGE AD L DANGE	Adjustable for A	/AB-Type only (via the built-in p	otentiometer)				•
	VOLTAGE ADJ. RANGE	13.5 ~ 17V	17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	38 ~ 46V	43 ~ 53V	49 ~ 58V
UTPUT	CURRENT ADJ. RANGE	Adjustable for A	/AB-Type only (via the built-in p	otentiometer)				'
		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 ~ 1.77
	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	1	-		<u>'</u>	
	HOLD UP TIME (Typ.)	30ms/347VAC, 480VAC							
	, , , ,	180 ~ 528VAC							
	VOLTAGE RANGE Note.5	(Please refer to "STATIC CHARACTERISTIC" section)							
	FREQUENCY RANGE	47 ~ 63Hz			, , , , , , , , , , , , , , , , , , ,				
	TREGORNOT TO INCE		ΔC PF>0 98/27	77\/AC PE>0.0	7/3/7\/AC PF>	በ	III load		
	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)							
NPUT	TOTAL HARMONIC DISTORTION	, , ,			TION (THD)" sed	•	ov moderj, @ io	au <u>=</u> 13 /0/400 V	ΑΟ)
	EFFICIENCY (Typ.)	89%	90%	91%	91%	90.5%	90.5%	91%	91%
	AC CURRENT (Typ.)	0.38A / 347VAC			3170	90.576	90.576	9170	3170
	INRUSH CURRENT (Typ.)					Por NEMA 410			
	MAX. No. of PSUs on 16A	COLD START 25A(twidth=900µs measured at 50% lpeak) at 480VAC; Per NEMA 410							
	CIRCUIT BREAKER	5 units (circuit breaker of type B) / 8 units (circuit breaker of type C) at 480VAC							
	LEAKAGE CURRENT	<0.75mA / 480\	/AC						
	OVER CURRENT	95 ~ 108%							
		Constant current limiting, recovers automatically after fault condition is removed							
ROTECTION	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed							
	OVER VOLTAGE	18 ~ 21V 23 ~ 27V 28 ~ 34V 34 ~ 38V 41 ~ 46V 47 ~ 53V 54 ~ 60V 59 ~ 65V							
		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 Tcase=-40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)							
	WORKING TEMP.		0°C (Please refe	r to "OUTPUT L	OAD vs TEMPER	RATURE" section)		
	MAX. CASE TEMP.	Tcase=+90°C							
NVIRONMENT	WORKING HUMIDITY	20 ~ 95% RH n	on-condensing						
NVINONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10							
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)							
	VIBRATION	10 ~ 500Hz, 5G	12min./1cycle,	period for 72mi	n. 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							
A F F T V 0	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC							
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG; 0/P-FG:100M Ohms / 500VDC / 25°C / 70% RH							
	EMC EMISSION	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	1810.5K hrs m	in. Telcordia	SR-332 (Bellco	re); 174.9K hrs	min. MIL-HDE	3K-217F (25°C)		
	DIMENSION	236*68*38.8mr		,					
	PACKING			T .					
IOTE	All parameters NOT specially Ripple & noise are measure Tolerance : includes set up to Please refer to "DRIVING M	1.18Kg; 12pcs/15.2Kg/0.74CUFT by mentioned are measured at 347VAC input, rated load and 25°C of ambient temperature. and at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. tolerance, line regulation and load regulation. IETHODS OF LED MODULE". Inder low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.							

- 5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.
 6. 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.
 7. 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)

 8. 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.

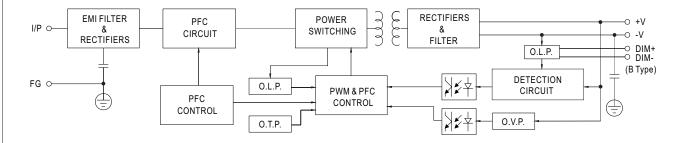
 9. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com.

- 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
 12. For A/AB type need to consider build in using to comply with Type HL application.
- ※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



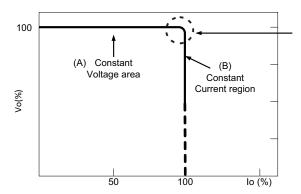
■ Block Diagram

Fosc: 80KHz



■ DRIVING METHODS OF LED MODULE

X This series is able to work in either Constant Current mode (a direct drive way) or Constant Voltage mode (usually through additional DC/DC driver) to drive the LEDs.



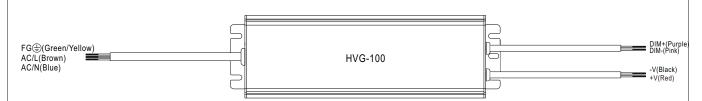
Typical output current normalized by rated current (%)

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.

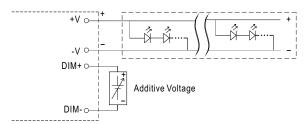


■ DIMMING OPERATION



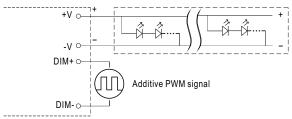
※ 3 in 1 dimming function (for B/AB-Type)

- 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



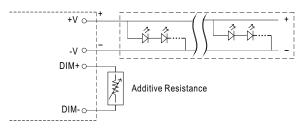
"DO NOT connect "DIM- to -V"

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

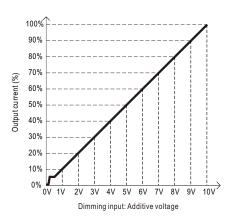


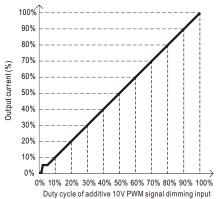
"DO NOT connect "DIM- to -V"

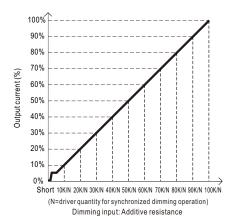
O Applying additive resistance:



"DO NOT connect "DIM- to -V"



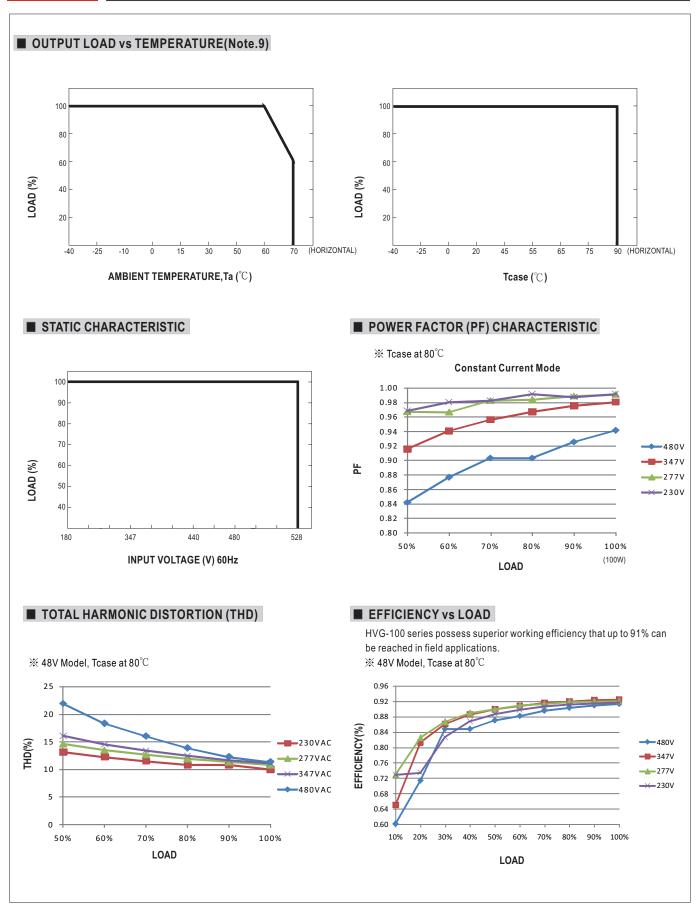




Note: 1. Min. dimming level is about 8% and the output current is not defined when 0% < Iout < 8%.

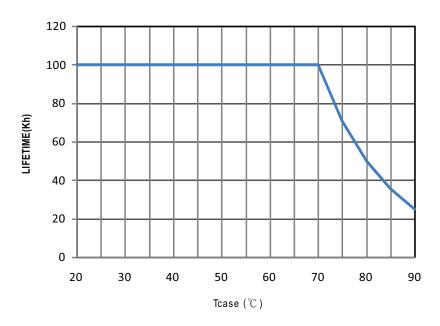
2. The output current could drop down to 0% when dimming input is about 0kΩ or 0Vdc, or 10V PWM signal with 0% duty cycle.

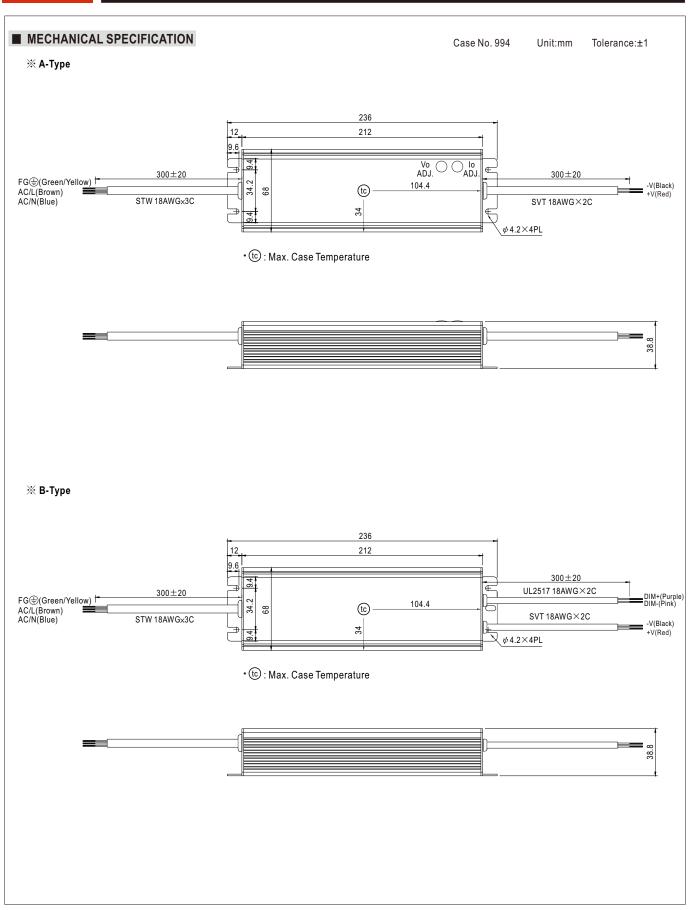




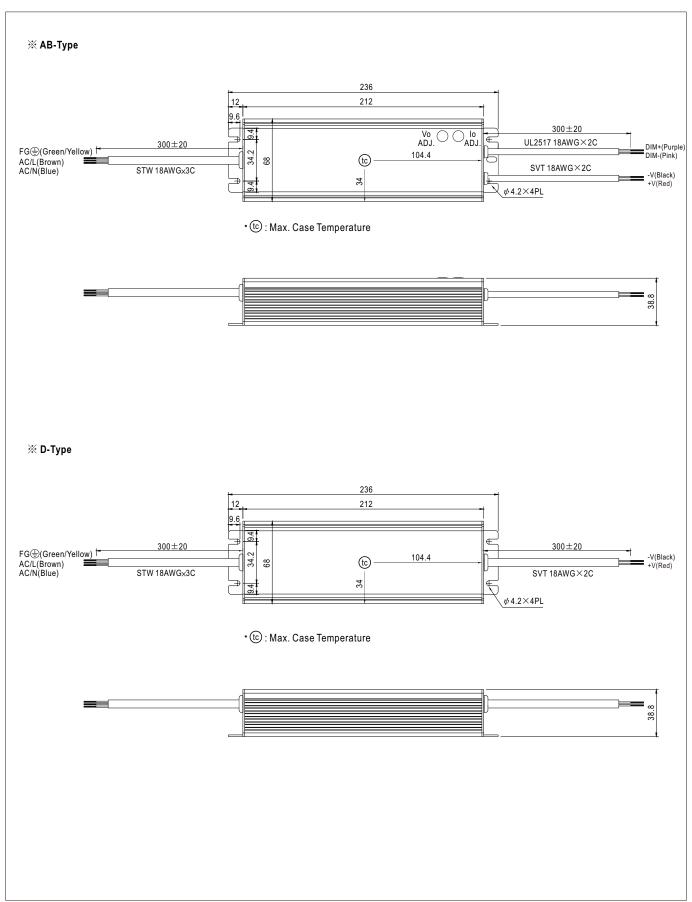


■ LIFE TIME







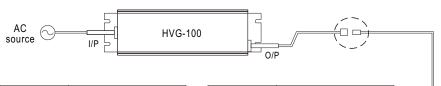


100W Constant Voltage + Constant Current LED Driver

■ WATERPROOF CONNECTION

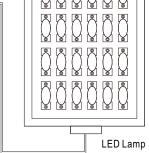
X Waterproof connector

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

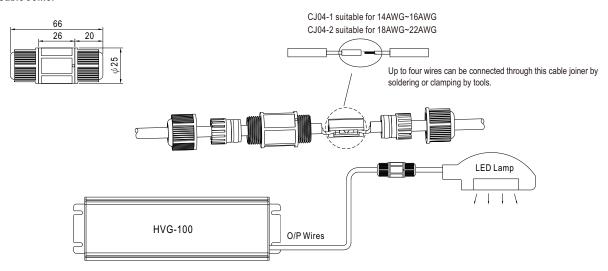


Size	Pin Configuration (Female)			
M12	000	000		
IVITZ	4-PIN	5-PIN		
	5A/PIN	5A/PIN		
Order No.	M12-04	M12-05		
Suitable Current	10A max.	10A max.		

Size	Pin Configuration (Female)		
M15	·		
IVITO	2-PIN		
	12A/PIN		
Order No.	M15-02		
Suitable Current	12A max.		

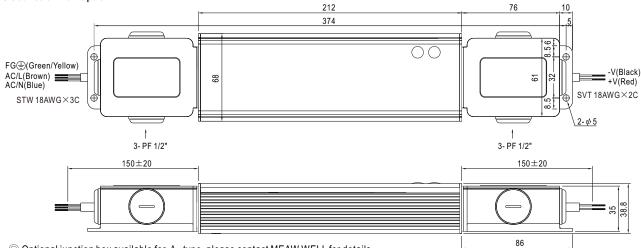


※ Cable Joiner



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

※ Junction Box Option



 $\bigcirc \ \, \text{Optional junction box available for } \ \, \text{A-type, please contact MEAW WELL for details.}$

■ INSTALLATION MANUAL

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