







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

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

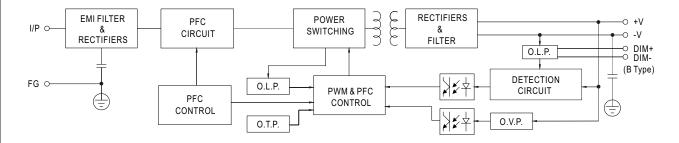
MODEL		HVG-100-15	HVG-100-20	HVG-100-24	HVG-100-30	HVG-100-36	HVG-100-42	HVG-100-48	HVG-100-54
	DC VOLTAGE	15V	20V	24V	30V	36V	42V	48V	54V
ОИТРИТ	CONSTANT CURRENT REGION Note.4	9~15V	10~20V	12~24V	15~30V	18~36V	21~42V	24~48V	27~54V
	RATED CURRENT	5A	4.8A	4A	3.2A	2.65A	2.28A	2A	1.77A
	RATED POWER	75W	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 (\	ia 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
	CURRENT AR L RANGE	Adjustable for A	/AB-Type only (\	ia the built-in p	otentiometer)				
	CURRENT ADJ. RANGE	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 /2	230VAC, 347VA	C, 480VAC					
	HOLD UP TIME (Typ.)	30ms/347VAC,	480VAC						
INPUT	VOLTAGE BANGE	180 ~ 528VAC	254VDC ~ 7	47VDC					
	VOLTAGE RANGE Note.5	(Please refer to	"STATIC CHARA	ACTERISTIC" s	section)				
	FREQUENCY RANGE	47 ~ 63Hz							
		PF≧0.98/230V	AC, PF≧ 0.98/27	77VAC, PF≥0.9	97/347VAC, PF≧0).93/480VAC @fu	II load		
	POWER FACTOR (Typ.)	(Please refer to	"POWER FACTO	OR (PF) CHARA	CTERISTIC" secti	on)			
		THD< 20%(@ I	oad≧50%/230\	/AC, 277VAC,	347VAC [@ load]	≥ 60% only for 1	5V model]; @ lo	ad≧75%/480VA	AC)
	TOTAL HARMONIC DISTORTION	, , ,			TION (THD)" sec	•	1, 0		,
	EFFICIENCY (Typ.)	89%	90%	91%	91%	90.5%	90.5%	91%	91%
	AC CURRENT (Typ.)	0.38A / 347VAC	0.28A / 48	0VAC	1	I			
	INRUSH CURRENT (Typ.)	COLD START 2	5A(twidth=900μs r	measured at 50%	6 Ipeak) at 480VAC	; Per NEMA 410			
	MAX. No. of PSUs on 16A								
i i	MAX. NO. OI I GOS OII IOA	5 units (circuit breaker of type B) / 8 units (circuit breaker of type C) at 480VAC							
	CIRCUIT BREAKER	5 units (circuit b	reaker of type B) / 8 units (circu	uit breaker of type	C) at 480VAC			
		5 units (circuit b) / 8 units (circu	uit breaker of type	C) at 480VAC			
	CIRCUIT BREAKER LEAKAGE CURRENT	` `) / 8 units (circu	uit breaker of type	C) at 480VAC			
	CIRCUIT BREAKER	<0.75mA / 480\ 95 ~ 108%	/AC	, ,		<u>'</u>			
	CIRCUIT BREAKER LEAKAGE CURRENT OVER CURRENT	<0.75mA / 480\ 95 ~ 108% Constant currer	/AC	ers automaticall	ly after fault condi	tion is removed			
PROTECTION	CIRCUIT BREAKER LEAKAGE CURRENT OVER CURRENT SHORT CIRCUIT	<0.75mA / 480\ 95 ~ 108% Constant currer	/AC	ers automaticall		tion is removed	47~53V	54 ~ 60V	59 ~ 65V
ROTECTION	CIRCUIT BREAKER LEAKAGE CURRENT OVER CURRENT	<0.75mA / 480\\ 95 ~ 108% Constant currer Constant currer 18 ~ 21V	nt limiting, recover	ers automaticallers automaticall	ly after fault condi ly after fault condi 34 ~ 38V	tion is removed tion is removed 41 ~ 46V	47 ~ 53V	54 ~ 60V	59 ~ 65V
ROTECTION	CIRCUIT BREAKER LEAKAGE CURRENT OVER CURRENT SHORT CIRCUIT OVER VOLTAGE	<0.75mA / 480\ 95 ~ 108% Constant currer Constant currer 18 ~ 21V Shut down o/p \	AC It limiting, recove It limiting, recove 23 ~ 27V Voltage with auto	ers automaticallers automaticall28 ~ 34V	ly after fault condi ly after fault condi	tion is removed tion is removed 41 ~ 46V rery	47 ~ 53V	54 ~ 60V	59 ~ 65V
ROTECTION	CIRCUIT BREAKER LEAKAGE CURRENT OVER CURRENT SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE	<0.75mA / 480\ 95 ~ 108% Constant currer Constant currer 18 ~ 21V Shut down o/p \ Shut down o/p	AC at limiting, recover th limiting, recover 23 ~ 27V voltage with auto voltage, recover	ers automaticall ers automaticall 28 ~ 34V -recovery or re- rs automaticall	ly after fault condi ly after fault condi 34 ~ 38V power on to recov y after temperatu	tion is removed tion is removed 41 ~ 46V very re goes down		54 ~ 60V	59 ~ 65V
ROTECTION	CIRCUIT BREAKER LEAKAGE CURRENT OVER CURRENT SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP.	<0.75mA / 480\ 95 ~ 108% Constant currer Constant currer 18 ~ 21V Shut down o/p v Shut down o/p Tcase=-40 ~ +9	AC at limiting, recover th limiting, recover 23 ~ 27V voltage with auto voltage, recover	ers automaticall ers automaticall 28 ~ 34V -recovery or re- rs automaticall	ly after fault condi ly after fault condi 34 ~ 38V power on to recov	tion is removed tion is removed 41 ~ 46V very re goes down		54 ~ 60V	59 ~ 65V
ROTECTION	CIRCUIT BREAKER LEAKAGE CURRENT OVER CURRENT SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP.	<0.75mA / 480\ 95 ~ 108% Constant currer Constant currer 18 ~ 21V Shut down o/p v Shut down o/p Tcase=-40 ~ +9 Tcase=+90°C	AC at limiting, recover the limiting, recover 23 ~ 27V voltage with auto voltage, recover 0°C (Please reference)	ers automaticall ers automaticall 28 ~ 34V -recovery or re- rs automaticall	ly after fault condi ly after fault condi 34 ~ 38V power on to recov y after temperatu	tion is removed tion is removed 41 ~ 46V very re goes down		54 ~ 60V	59 ~ 65V
	CIRCUIT BREAKER LEAKAGE CURRENT OVER CURRENT SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY	<0.75mA / 480\\ 95 ~ 108\%\ Constant currer\ Constant currer\ 18 ~ 21\V\ Shut down o/p\ Tcase=-40 ~ +9\\ Tcase=+90\C 20 ~ 95\% RH no	AC at limiting, recover at limiting, recover 23 ~ 27V voltage with auto voltage, recover 0°C (Please reference)	ers automaticall ers automaticall 28 ~ 34V -recovery or re- rs automaticall	ly after fault condi ly after fault condi 34 ~ 38V power on to recov y after temperatu	tion is removed tion is removed 41 ~ 46V very re goes down		54 ~ 60V	59 ~ 65V
	CIRCUIT BREAKER LEAKAGE CURRENT OVER CURRENT SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY	<0.75mA / 480\\ 95 ~ 108\%\ Constant currer\ Constant currer\ 18 ~ 21\V\ Shut down o/p\ Shut down o/p\ Tcase=-40 ~ +9\\ Tcase=+90\cdot C\ 20 ~ 95\% RH nc\ -40 ~ +80\cdot C, 10\\	AC At limiting, recover the limiting that the limiting, recover the limiting that the	ers automaticall ers automaticall 28 ~ 34V -recovery or re- rs automaticall	ly after fault condi ly after fault condi 34 ~ 38V power on to recov y after temperatu	tion is removed tion is removed 41 ~ 46V very re goes down		54 ~ 60V	59 ~ 65V
	CIRCUIT BREAKER LEAKAGE CURRENT OVER CURRENT SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT	<0.75 mA $/$ 480\\ 95 ~ 108\% Constant currer Constant currer 18 ~ 21\V Shut down o/p \\ Shut down o/p \\ Tcase=-40 ~ +9 Tcase=+90\C 20 ~ 95\% RH no -40 ~ +80\C, 10 $\pm 0.03\%$ /\C (0	AC at limiting, recove 23 ~ 27V voltage with auto voltage, recove 0°C (Please reference) on-condensing 2 ~ 95% RH ~ 60°C)	ers automaticallers automaticallers automaticallers avionaticallers automaticallers automatica	ly after fault condi ly after fault condi 34 ~ 38V -power on to recov y after temperatu OAD vs TEMPER	tion is removed tion is removed 41 ~ 46V very re goes down ATURE" section)		54 ~ 60V	59 ~ 65V
	CIRCUIT BREAKER LEAKAGE CURRENT OVER CURRENT SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION	<0.75 mA $/$ 480\\ $95 \sim 108\%$ Constant currer Constant currer $18 \sim 21V$ Shut down o/p \\ Shut down o/p \\ Tcase=-40 \simeq +9 Tcase=+90\\ $20 \sim 95\%$ RH no $-40 \sim +80^\circ$ C, 10 $\pm 0.03\%$ /°C (0 $10 \sim 500$ Hz, 5G	AC Int limiting, recover the limiting, recover 23 ~ 27V Voltage with autoroutlage, recover 0°C (Please reference on-condensing 0 ~ 95% RH ~ 60°C) 12min./1cycle, p	ers automaticall ers automaticall 28 ~ 34V -recovery or re- rs automaticall r to "OUTPUT L	ly after fault condi ly after fault condi 34 ~ 38V power on to recov y after temperatu OAD vs TEMPER	tion is removed tion is removed 41 ~ 46V very re goes down ATURE" section)		54 ~ 60V	59 ~ 65V
	CIRCUIT BREAKER LEAKAGE CURRENT OVER CURRENT SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS	<0.75 mA $/$ 480 \\ 95 ~ 108% \\ Constant currer \\ 18 ~ 21 \\ Shut down o/p \\ Shut down o/p \\ Tcase=-40 ~ +9 \\ Tcase=+90 \\ 20 ~ 95\\ RH nc \\ -40 ~ +80 \\ -40 ~ +80 \\ 10 ~ 500Hz, 5G \\ UL8750(type"H	nt limiting, recover the limiting and limiting and limiting the limiting and limi	ers automaticallers automatica	ly after fault condi ly after fault condi 34 ~ 38V -power on to recov y after temperatu OAD vs TEMPER n. each along X, Y	tion is removed tion is removed 41 ~ 46V very re goes down ATURE" section)		54 ~ 60V	59 ~ 65V
NVIRONMENT	CIRCUIT BREAKER LEAKAGE CURRENT OVER CURRENT SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE	<0.75mA / 480\\ 95 ~ 108%\\ Constant currer\\ Constant currer\\ 18 ~ 21V\\ Shut down o/p \\ Shut down o/p \\ Tcase=-40 ~ +9\\ Tcase=+90\\C\\ 20 ~ 95\\C\\ RH no\\\ -40 ~ +80\\C\\\ 10 ~ 500Hz, 5G\\\ UL8750(type\(^H\) I/P-O/P:3.75K\\	AC at limiting, recover the limiting, recover 23 ~ 27V voltage with auto voltage, recover 0°C (Please refer con-condensing 0 ~ 95% RH ~ 60°C) to 12min./1cycle, I L"), CSA C22.2 N VAC I/P-FG:2	ers automaticall ers automaticall 28 ~ 34V -recovery or re- rs automaticall r to "OUTPUT L period for 72mi No. 250.0-08, E. KVAC O/P-F	ly after fault condi ly after temperatu OAD vs TEMPER n. each along X, N AC TP TC 004, IP	tion is removed tion is removed 41 ~ 46V very re goes down ATURE" section)		54 ~ 60V	59 ~ 65V
NVIRONMENT	CIRCUIT BREAKER LEAKAGE CURRENT OVER CURRENT SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS	<0.75mA / 480\\ 95 ~ 108%\\ Constant currer\\ Constant currer\\ 18 ~ 21\\ Shut down o/p \\ Shut down o/p \\ Tcase=-40 ~ +9\\ 70 ~ 95\\ RH no\\ -40 ~ +80\\ _10 ~ 500Hz, 5G\\ UL8750(type"H\\ I/P-O/P; 3.75K\\ I/P-O/P, I/P-FG\\	AC at limiting, recover the limiting, recover 23 ~ 27V voltage with auto voltage, recover 0°C (Please reference) 0 ~ 95% RH ~ 60°C) 12min./1cycle, I L"), CSA C22.2 N VAC I/P-FG:21 5, O/P-FG:100M	ers automaticall ers automaticall 28 ~ 34Vrecovery or re- rs automaticall r to "OUTPUT L period for 72mi No. 250.0-08, E. KVAC O/P-F Ohms / 500VD	ly after fault condi ly after fault condi 34 ~ 38V power on to recover y after temperature OAD vs TEMPER n. each along X, Yac TP TC 004, IP G:1.5KVAC	tion is removed tion is removed 41 ~ 46V very re goes down ATURE" section) 7, Z axes 65 or IP67 appro	ved		
NVIRONMENT SAFETY &	CIRCUIT BREAKER LEAKAGE CURRENT OVER CURRENT SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE	<0.75mA / 480\\ 95 ~ 108%\\ Constant currer\\ Constant currer\\ 18 ~ 21V\\ Shut down o/p \\ Shut down o/p \\ Tcase=-40 ~ +9\\ Tcase=+90\\C\\ 20 ~ 95\\C\\ RH no\\\ -40 ~ +80\\C\\\ 10 ~ 500Hz, 5G\\\ UL8750(type\(^H\\\ I/P-O/P, I/P-FG\\\ Compliance to I\\ Compliance to I\\	AC at limiting, recover the limiting, recover 23 ~ 27V voltage with auto voltage, recover 0°C (Please reference) 0 ~ 95% RH ~ 60°C) 12min./1cycle, I L"), CSA C22.2 N VAC I/P-FG:21 5, O/P-FG:100M	ers automaticall ers automaticall 28 ~ 34Vrecovery or re- rs automaticall r to "OUTPUT L period for 72mi No. 250.0-08, E. KVAC O/P-F Ohms / 500VD	ly after fault condi ly after temperatu OAD vs TEMPER n. each along X, N AC TP TC 004, IP	tion is removed tion is removed 41 ~ 46V very re goes down ATURE" section) 7, Z axes 65 or IP67 appro	ved		
NVIRONMENT	CIRCUIT BREAKER LEAKAGE CURRENT OVER CURRENT SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	<0.75mA / 480\\ 95 ~ 108\%\\ Constant currer\\ Constant currer\\ 18 ~ 21\V\\ Shut down o/p \\ Shut down o/p \\ Tcase=-40 ~ +9\\ Tcase=+90\\C\\ 20 ~ 95\\\ RH no\\\ -40 ~ +80\\C\ 10\\\ \tau 0.3\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	AC at limiting, recover the limiting, recover 23 ~ 27V voltage with auto voltage, recover con-condensing 0 ~ 95% RH ~ 60°C) 12min./1cycle, I L"), CSA C22.2 N VAC I/P-FG:2l 3, O/P-FG:100M EN55015, EN610 the part B, EAC TP EN61000-4-2,3,4	ers automaticall ers automaticall 28 ~ 34V -recovery or re- rs automaticall r to "OUTPUT L period for 72mi No. 250.0-08, E. KVAC O/P-F Ohms / 500VD 000-3-2 Class of	ly after fault condi ly after fault condi 34 ~ 38V power on to recover y after temperature OAD vs TEMPER n. each along X, Yac TP TC 004, IP G:1.5KVAC	tion is removed tion is removed 41 ~ 46V very re goes down ATURE" section) 7, Z axes 65 or IP67 appro	ved % only for 15V n	nodel) ; EN61000	D-3-3,
NVIRONMENT	CIRCUIT BREAKER LEAKAGE CURRENT OVER CURRENT SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	<0.75mA / 480\\ 95 ~ 108\%\\ Constant currer\\ Constant currer\\ 18 ~ 21\V\\ Shut down o/p \\ Shut down o/p \\ Tcase=-40 ~ +9\\ Tcase=+90\\C\\ 20 ~ 95\\\ RH no\\\ -40 ~ +80\\C\ 10\\\ \tau 0.3\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	nt limiting, recover the limiting and limiting limiting	ers automaticall ers automaticall 28 ~ 34Vrecovery or re- rs automaticall r to "OUTPUT L period for 72mi No. 250.0-08, E. KVAC O/P-F Ohms / 500VD 000-3-2 Class (TC 020 4,5,6,8,11, EN6	ly after fault condi ly after fault condi 34 ~ 38V -power on to recove y after temperature OAD vs TEMPER n. each along X, \n AC TP TC 004, IP G:1.5KVAC C (25°C / 70% RIC	tion is removed tion is removed 41~46V very re goes down ATURE" section) 7, Z axes 65 or IP67 appro d oad,@ load≥60 y level (surge im	ved % only for 15V n	nodel) ; EN61000	D-3-3,
NVIRONMENT	CIRCUIT BREAKER LEAKAGE CURRENT OVER CURRENT SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	<0.75mA / 480\\ 95 ~ 108\% Constant currer Constant currer 18 ~ 21\V Shut down o/p\\ Tcase=-40 ~ +9\\ Tcase=+90\\C\\ 20 ~ 95\\C\\ RH nc\\ -40 ~ +80\\C\\ 10 ~ 500Hz, 5G\\\ UL8750(type\(^H\\\ I/P-O/P; 3.75K\\\ I/P-O/P, I/P-FG\\\ Compliance to I\\ FCC Part 15 Su\\ Compliance to I\\ EAC TP TC 020\end{array}	nt limiting, recover the limiting and the limiting and limi	ers automaticall ers automaticall 28 ~ 34Vrecovery or re- rs automaticall r to "OUTPUT L period for 72mi No. 250.0-08, E. KVAC O/P-F Ohms / 500VD 000-3-2 Class (TC 020 4,5,6,8,11, EN6	ly after fault condi ly after fault condi 34 ~ 38V power on to recover y after temperature OAD vs TEMPER In. each along X, \nabla AC TP TC 004, IP G:1.5KVAC CC / 25°C / 70% RF CC (@ load ≥ 50% leads	tion is removed tion is removed 41~46V very re goes down ATURE" section) 7, Z axes 65 or IP67 appro d oad,@ load≥60 y level (surge im	ved % only for 15V n munity Line-Eart	nodel) ; EN61000)-3-3,
AFETY & MC	CIRCUIT BREAKER LEAKAGE CURRENT OVER CURRENT SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF	<0.75mA / 480\\ 95 ~ 108\%\ Constant currer\ Constant currer\ 18 ~ 21\V\ Shut down o/p\\ Shut down o/p\\ Tcase=-40 ~ +9\\ Tcase=+90\\C\ 20 ~ 95\\C\ RH nt\\ -40 ~ +80\\C\ 10 ~ 500Hz 5G\\\ UL8750(type\(^H\)\\ I/P-O/P 1/P-FG\\ Compliance to I\\ FCC Part 15 Su\\ Compliance to I\\ EAC TP TC 020\\ 1810.5K hrs mi\\ 236\(^68\^38\).8mn	nt limiting, recover the limiting and the limiting and limi	ers automaticall ers automaticall 28 ~ 34V -recovery or re- rs automaticall r to "OUTPUT L period for 72mi No. 250.0-08, E. KVAC O/P-F Ohms / 500VD 000-3-2 Class (TC 020 4,5,6,8,11, EN6 SR-332 (Bellco	ly after fault condi ly after fault condi 34 ~ 38V power on to recover y after temperature OAD vs TEMPER In. each along X, \nabla AC TP TC 004, IP G:1.5KVAC CC / 25°C / 70% RF CC (@ load ≥ 50% leads	tion is removed tion is removed 41~46V very re goes down ATURE" section) 7, Z axes 65 or IP67 appro d oad,@ load≥60 y level (surge im	ved % only for 15V n munity Line-Eart	nodel) ; EN61000)-3-3,

- 4. Please refer to "DRIVING METHODS OF LED MODULE".

- 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 (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
 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

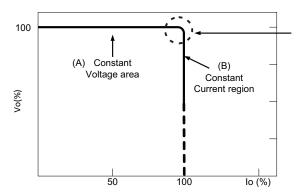
■ Block Diagram

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.



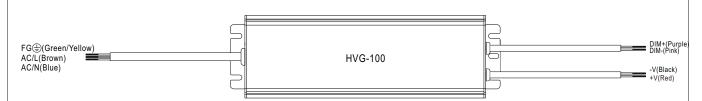
Typical output current normalized by rated current (%)

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.

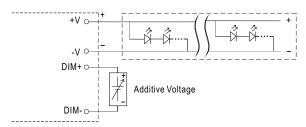


■ DIMMING OPERATION



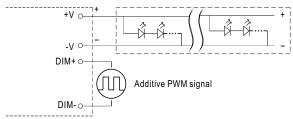
※ 3 in 1 dimming function (for B/AB-Type)

- 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



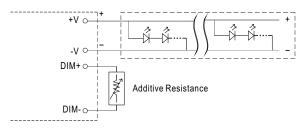
"DO NOT connect "DIM- to -V"

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

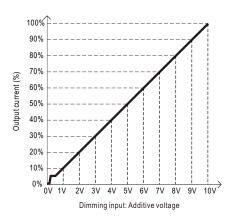


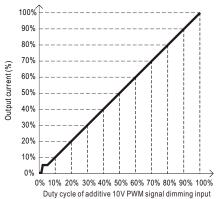
"DO NOT connect "DIM- to -V"

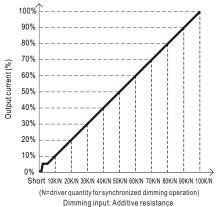
O Applying additive resistance:



"DO NOT connect "DIM- to -V"



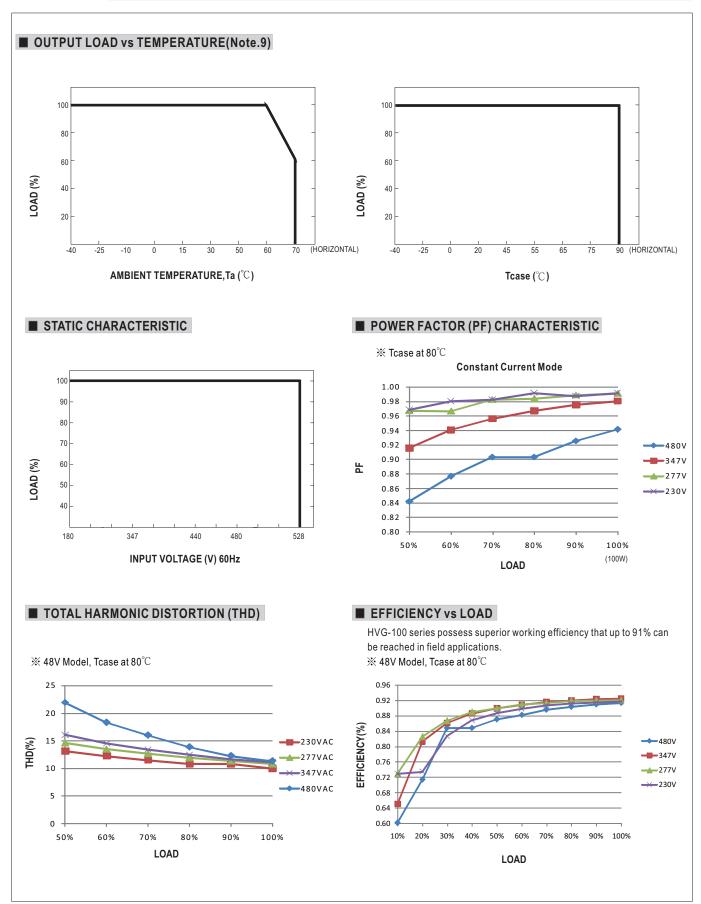




Note: 1. Min. dimming level is about 8% and the output current is not defined when 0% < Iout < 8%.

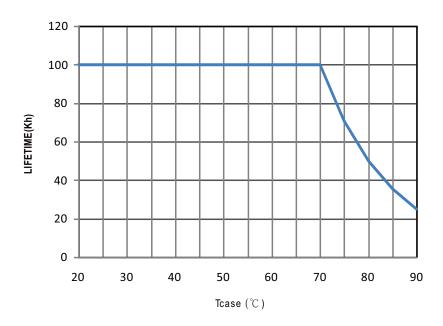
2. The output current could drop down to 0% when dimming input is about 0kΩ or 0Vdc, or 10V PWM signal with 0% duty cycle.



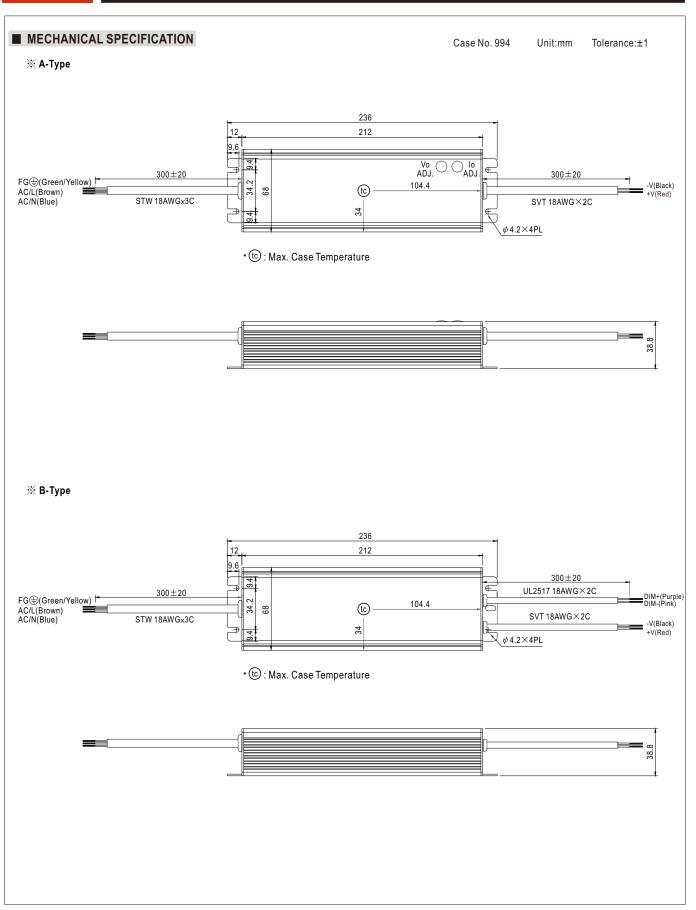




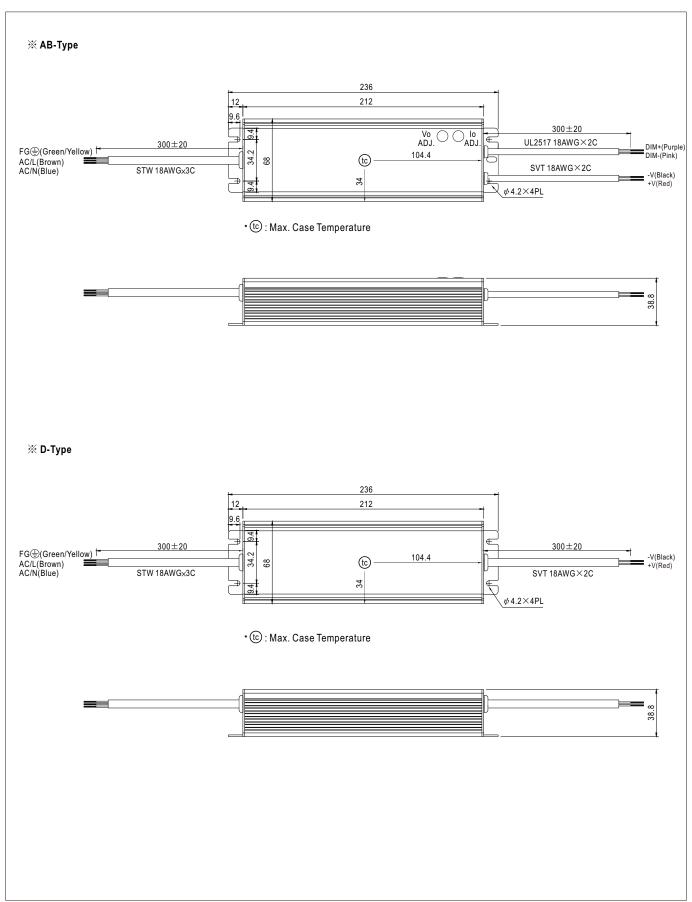
■ LIFE TIME



HVG-100 series





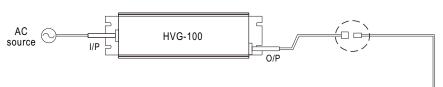


100W Constant Voltage + Constant Current LED Driver

■ WATERPROOF CONNECTION

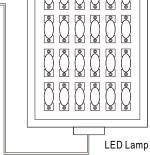
X Waterproof connector

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

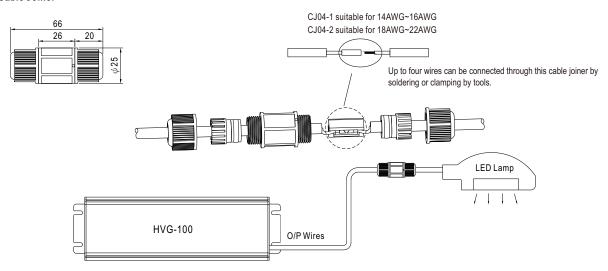


Size	Pin Configuration (Female)			
M12	000	000		
IVITZ	4-PIN	5-PIN		
	5A/PIN	5A/PIN		
Order No.	M12-04	M12-05		
Suitable Current	10A max.	10A max.		

Size	Pin Configuration (Female)		
M15	00		
IVITO	2-PIN		
	12A/PIN		
Order No.	M15-02		
Suitable Current	12A max.		

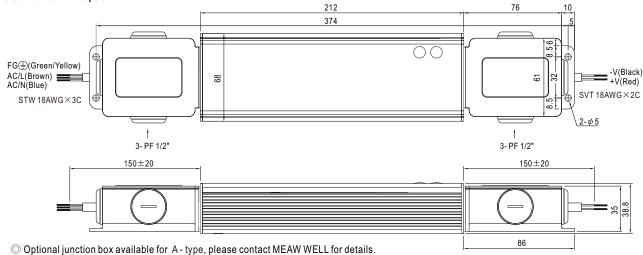


※ Cable Joiner



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

X Junction Box Option



■ INSTALLATION MANUAL

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