

HVG-65 series







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

IP65 IP67 🕞 [][c 🎧 us FC

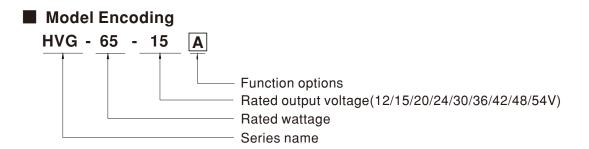
Applications

- · LED street lighting
- · LED high-bay lighting
- · Parking space lighting
- · LED fishing lamp
- LED greenhouse lighting

GTIN CODE

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

HVG-65 series is a 65W AC/DC LED driver featuring the dual mode constant voltage and constant current output. HVG-65 operates from $180 \sim 528$ VAC and offers models with different rated voltage ranging between 12V and 54V. Thanks to the high efficiency up to 90%, with the fanless design, the entire series is able to operate for -40° C $\sim +80^{\circ}$ 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. HVG-65 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 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

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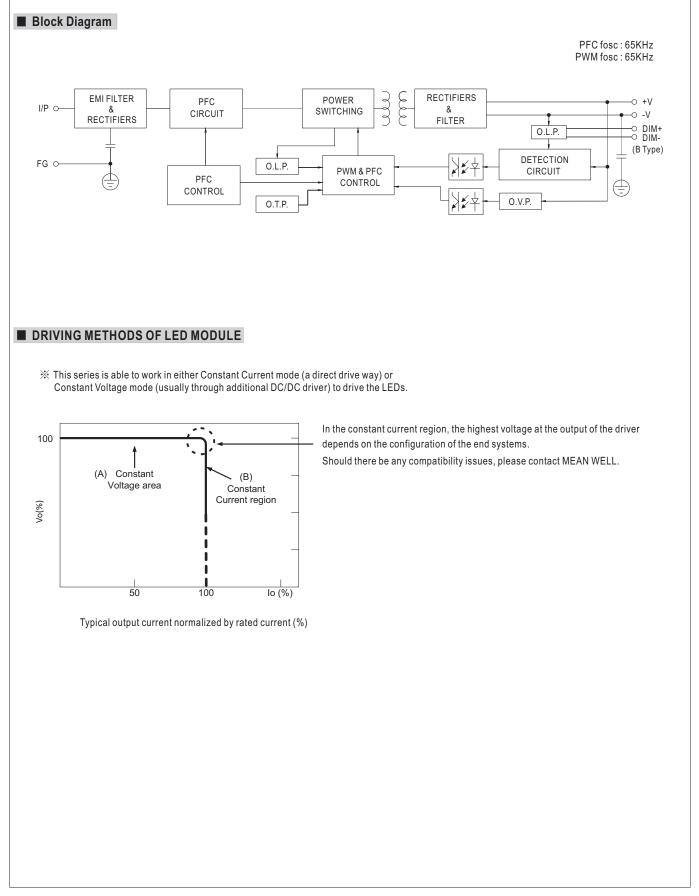


SPECIFICATION

MODEL		HVG-65-12	HVG-65-15	HVG-65-20	HVG-65-24	HVG-65-30	HVG-65-36	HVG-65-42	HVG-65-48	HVG-65-54	
MODEL											
OUTPUT	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V	
	CONSTANT CURRENT REGION Note.4		9 ~ 15V	12 ~ 20V	14.4 ~ 24V	18 ~ 30V	21.6 ~ 36V	25.2 ~ 42V	28.8 ~ 48V	32.4 ~ 54V	
	RATED CURRENT	5A	4.3A	3.25A	2.71A	2.17A	1.81A	1.55A	1.36A	1.21A	
	RATED POWER	60W	64.5W	65W	65W	65.1W	65.2W	65.1W	65.3W	65.3W	
	RIPPLE & NOISE (max.) Note.2	120mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	300mVp-p	300mVp-p	300mVp-p	
	VOLTAGE ADJ. RANGE	Adjustable for A-Type only (via the built-in potentiometer)									
	VOLIAGE ADJ. NANGE	10.8 ~ 13.5V 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 on	ly (via the built-	in potentiomet	er)					
	CURRENT ADJ. RANGE	3 ~ 5A	2.58~4.3A	1.95 ~ 3.25A	1.62 ~ 2.71A	1.3~2.17A	1.08~1.81A	0.93 ~ 1.55A	0.81 ~ 1.36A	0.72 ~ 1.21/	
	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%	$\pm 1.0\%$	±1.0%	±1.0%	±1.0%	
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION	±1.5%	±1.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	SETUP, RISE TIME	500ms, 80ms	/230VAC	400ms, 80ms	/347VAC, 480	VAC		1			
	HOLD UP TIME (Typ.)	16ms / 347VAC 30ms / 480VAC									
INPUT		180 ~ 528VAC 254VDC ~ 747VDC									
	VOLTAGE RANGE Note.5	(Please refer to "STATIC CHARACTERISTIC" section)									
	FREQUENCY RANGE	47 ~ 63Hz									
				7/277VAC PE	> 0 97/347\/AC	PE>0 93/480	VAC @full load	1			
	POWER FACTOR (Typ.)	PF ≥ 0.98/230VAC, PF ≥ 0.97/277VAC, PF ≥ 0.97/347VAC, PF ≥ 0.93/480VAC @full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)									
		`		· · /		© section) @ load≧75%/4					
	TOTAL HARMONIC DISTORTION		to "TOTAL HA	,			100 170)				
		86.5%	87.5%		1	89%	89.5%	89.5%	90%	90%	
	EFFICIENCY (Typ.) AC CURRENT (Typ.)	00.3%		88.5%	89%	09%	09.0%	09.0%	90%	90%	
					EO9/ Israel) of (MA 410				
	INRUSH CURRENT (Typ.)	COLD START 25A(twidth=420µs measured at 50% Ipeak) at 480VAC; Per NEMA 410									
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	12 units (circuit breaker of type B) / 20 units (circuit breaker of type C) at 480VAC									
	LEAKAGE CURRENT	<0.75mA/480VAC									
PROTECTION	OVER CURRENT	95 ~ 108%									
	OVER CONNENT	Constant current limiting, recovers automatically after fault condition is removed									
	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed									
		14.4~16.8V 18~21V 23~27V 28~34V 34~38V 41~46V 47~53V 54~60V 59~65V									
	OVER VOLTAGE	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 ~ +80°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)									
	MAX. CASE TEMP.	Tcase=+80°C									
	WORKING HUMIDITY	20 ~ 95% RH non-condensing									
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH									
	TEMP. COEFFICIENT	-40 ~ +80 C, 10 ~ 95% RH ±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. 250.0-13, 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									
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH									
	EMC EMISSION	Compliance to EN55015, EN61000-3-2 Class C (@ load≧60%) ; 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								EAC TP TC 02	
-	MTBF	2170.5K hrs min. Telcordia SR-332 (Bellcore) ; 208.0K hrs min. MIL-HDBK-217F (25° C)									
	DIMENSION	189*61.5*36.8mm (L*W*H)									
	PACKING	0.77Kg; 18pcs	s/14.9Kg/0.89C	CUFT							
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". 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. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (to) point (or TMP, per DLC), is about 75°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(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 Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 										

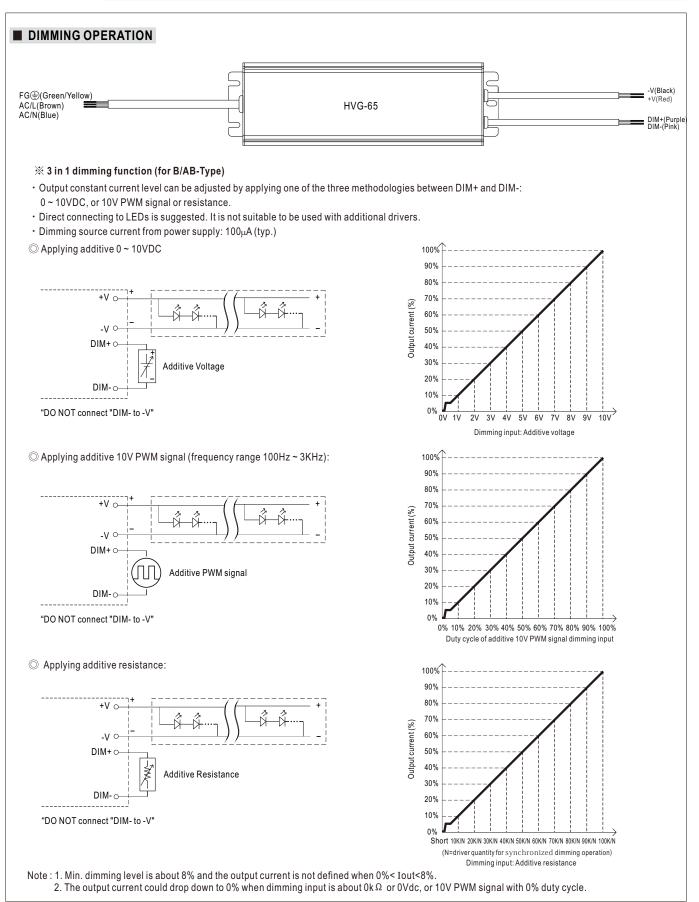


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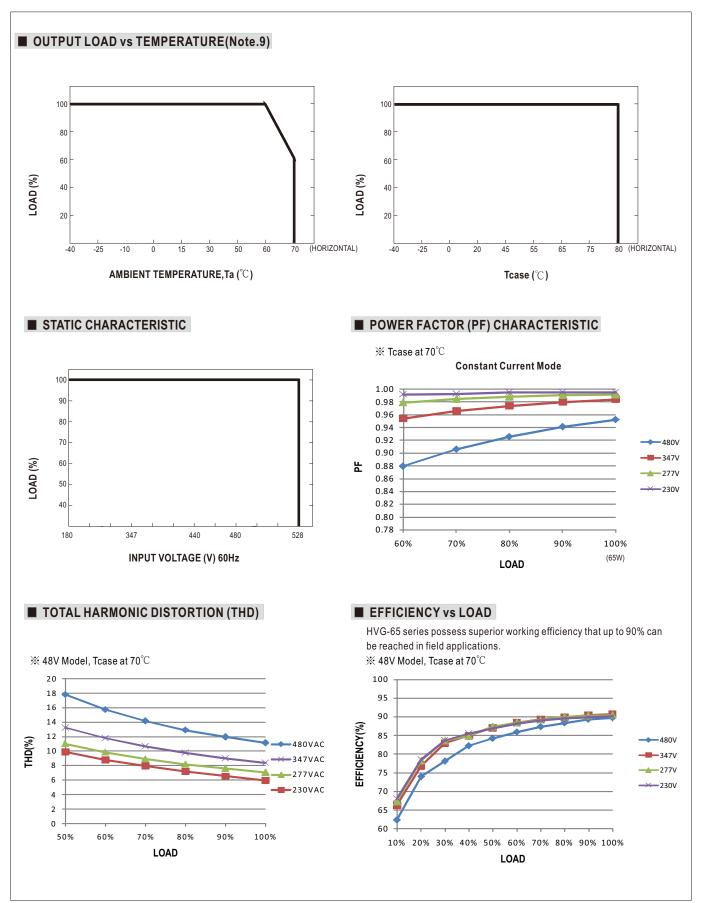
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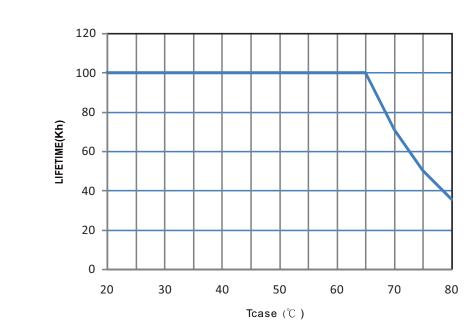
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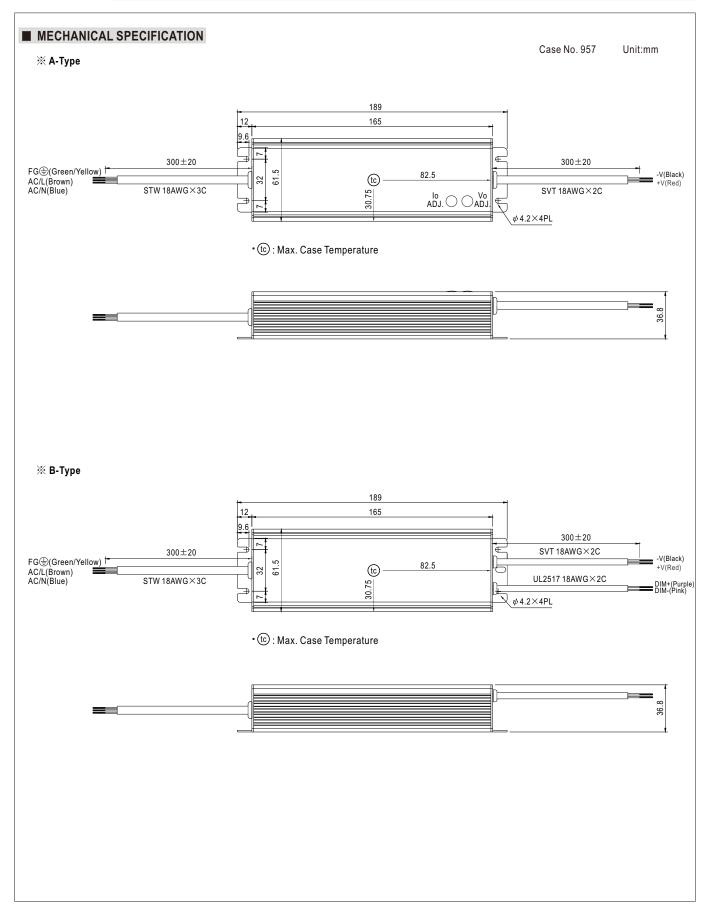


LIFE TIME



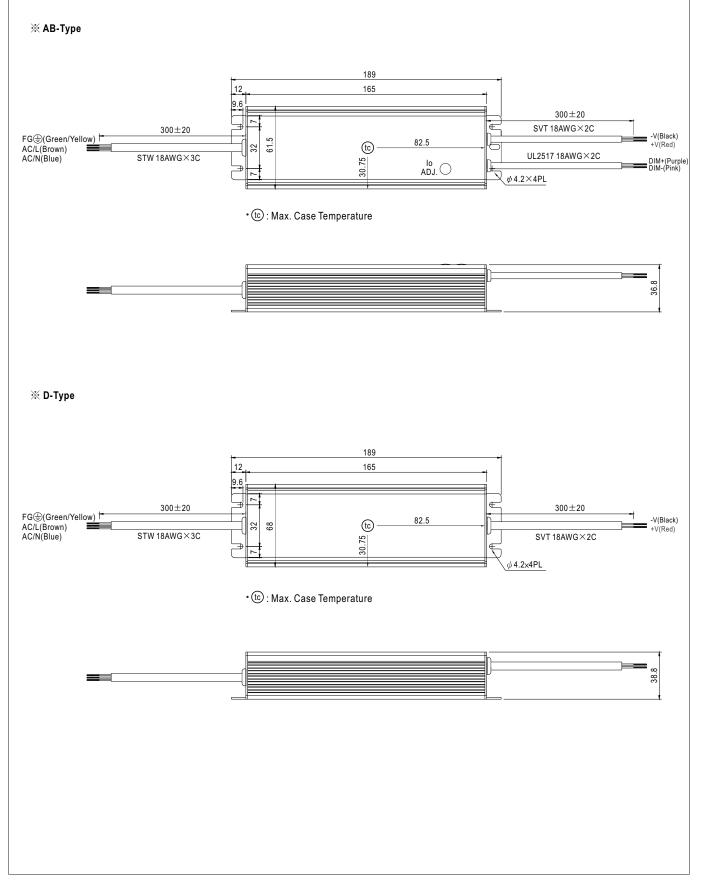


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WATERPROOF CONNECTION

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

Waterproof connector can be assembled on the output cable of HVG-65 to operate in dry/wet/damp or outdoor environment.

