

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

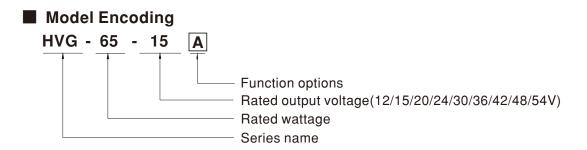
Applications

- · 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.



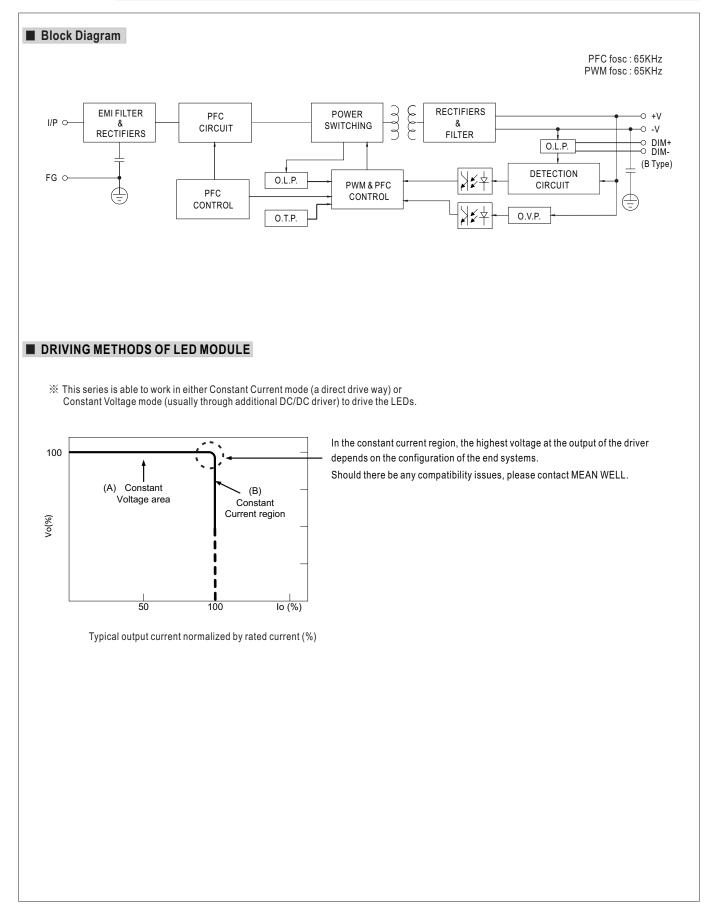
Туре	IP Level	Function	Note
A	IP65	Io and Vo adjustable through built-in potentiometer.	In Stock
В	IP67	3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock
AB	IP65	Io adjustable through built-in potentiometer & 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock
D	IP67	Built-in Smart timer dimming function by user request.	By request



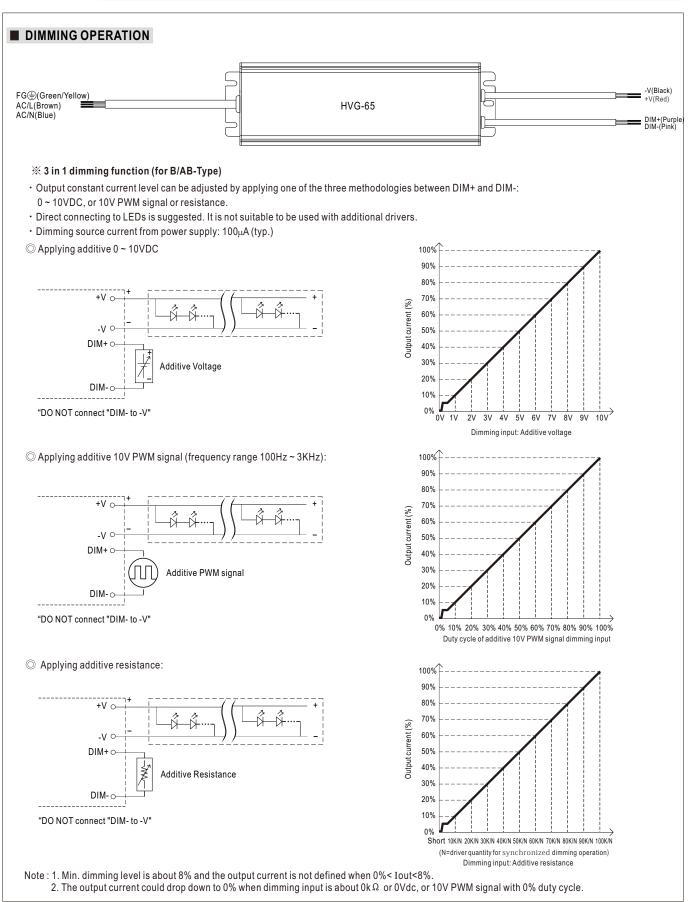
SPECIFICATION

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	
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V	
OUTPUT	CONSTANT CURRENT REGION Note.4		9 ~ 15V	20V 12 ~ 20V	24V 14.4 ~ 24V	30V 18 ~ 30V	21.6 ~ 36V	42 v 25.2 ~ 42 V	48V 28.8~48V	32.4 ~ 54V	
	RATED CURRENT	7.2~12V 5A	9~15V 4.3A	3.25A	2.71A	2.17A	1.81A	1.55A	1.36A	1.21A	
	RATED POWER	60W	4.5A 64.5W	65W	65W	65.1W	65.2W	65.1W	65.3W	65.3W	
	RIPPLE & NOISE (max.) Note.2		150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	300mVp-p	300mVp-p	300mVp-p	
	RIFFLE & NOISE (IIIAX.) Note.2					20011vp-p	20011vp-p	-200111vp-b	300111vp-p	300mvp-p	
	VOLTAGE ADJ. RANGE	Adjustable for A-Type only (via the built-in potentiometer) 10.8 ~ 13.5V 13.5 ~ 17V 17 ~ 22V 22 ~ 27V 27 ~ 33V 33 ~ 40V 38 ~ 46V 43 ~ 53V 49 ~ 58V									
		10.8 ~ 13.5V 13.5 ~ 17V 17 ~ 22V 22 ~ 27V 27 ~ 33V 33 ~ 40V 38 ~ 46V 43 ~ 53V 49 ~ 58V Adjustable for A/AB-Type only (via the built-in potentiometer)									
	CURRENT ADJ. RANGE	3 ~ 5A	2.58 ~ 4.3A		1.62 ~ 2.71A	,	1 08 ~ 1 810	0.03 ~ 1.55	0.81 ~ 1.36A	0.72 ~ 1.21/	
	VOLTAGE TOLERANCE Note.3		±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	LINE REGULATION		$\pm 2.0\%$ $\pm 0.5\%$	±0.5%	±0.5%	±0.5%	土 1.0% 土 0.5%	±0.5%	±0.5%	$\pm 0.5\%$	
		±0.5%					±0.5%				
	LOAD REGULATION	±1.5%	±1.5%	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$	10.5%	±0.5%	±0.5%	±0.5%	
	SETUP, RISE TIME	500ms, 80ms			/347VAC, 480	VAC					
INPUT	HOLD UP TIME (Typ.)	16ms / 347VAC 30ms / 480VAC									
	VOLTAGE RANGE Note.5	180 ~ 528VAC 254VDC ~ 747VDC									
		(Please refer to "STATIC CHARACTERISTIC" section)									
	FREQUENCY RANGE	47 ~ 63Hz									
	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) THD<20%(@ load≥60%/230VAC, 277VAC, 347VAC; @ load≥75%/480VAC)									
	TOTAL HARMONIC DISTORTION		-	,			180VAC)				
				1	TORTION (THI		00.51	00	0.001	0.001	
	EFFICIENCY (Typ.)	86.5%	87.5%	88.5%	89%	89%	89.5%	89.5%	90%	90%	
	AC CURRENT (Typ.)	0.22A/347V/		/ 480VAC							
	INRUSH CURRENT (Typ.)	COLD START 25A(twidth=420µ/s 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 ODIALENT	Constant current limiting, recovers automatically after fault condition is removed									
	SHORT CIRCUIT	Constant curr	ent limiting, rec	covers automa	tically after fau	It condition is re	emoved				
	OVER VOLTAGE	14.4 ~ 16.8V	18~21V	23 ~ 27V	28 ~ 34V	34 ~ 38V	41 ~ 46V	47 ~ 53V	54 ~ 60V	59 ~ 65V	
	OVER VOLIAGE	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									
	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-condensin	ıg							
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH									
	TEMP. COEFFICIENT	±0.03%/°C (0∼60°C)								
	VIBRATION	10 ~ 500Hz, 5	G 12min./1cyc	le, period for 7	72min. each ald	ong X, Y, Z axes	5				
	SAFETY STANDARDS	UL8750(type'	HL"), CSA C22	.2 No. 250.0-1	3, EAC TP TC	004, IP65 or IP	67 approved				
	WITHSTAND VOLTAGE	UL8750(type"HL"), CSA C22.2 No. 250.0-13, EAC TP TC 004, IP65 or IP67 approved 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: O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH									
EMC	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						-		ine-Line 2KV), I		
OTHERS	MTBF	2170.5K hrs			ellcore); 208.0		MIL-HDBK-21	-			
	DIMENSION	189*61.5*36.						(200)			
3E.(U	PACKING		s/14.9Kg/0.89C	UFT							
	1. All parameters NOT specially	0, 1	0		ut. rated load a	nd 25°C of am	bient tempera	ture.			
NOTE	 2. Ripple noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. Please refer to "DRIVING METHODS OF LED MODULE". 5. 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 75°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. 3. Yenduct Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 										

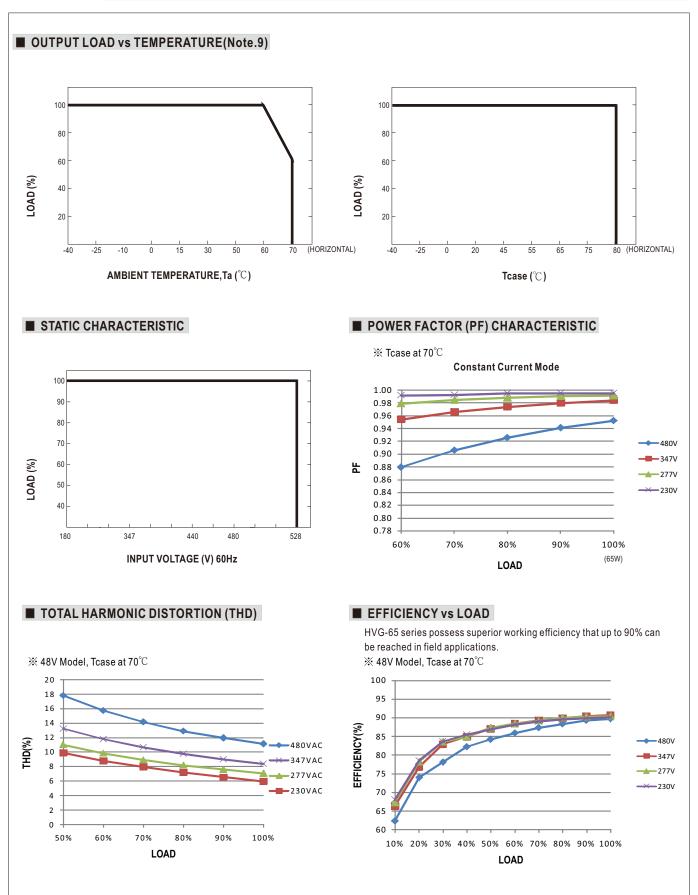






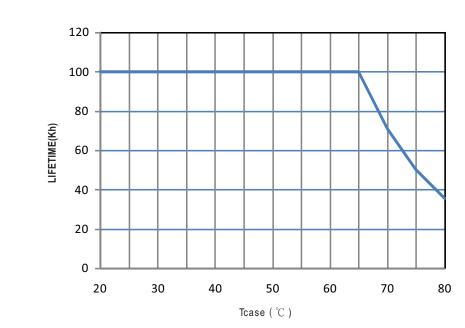




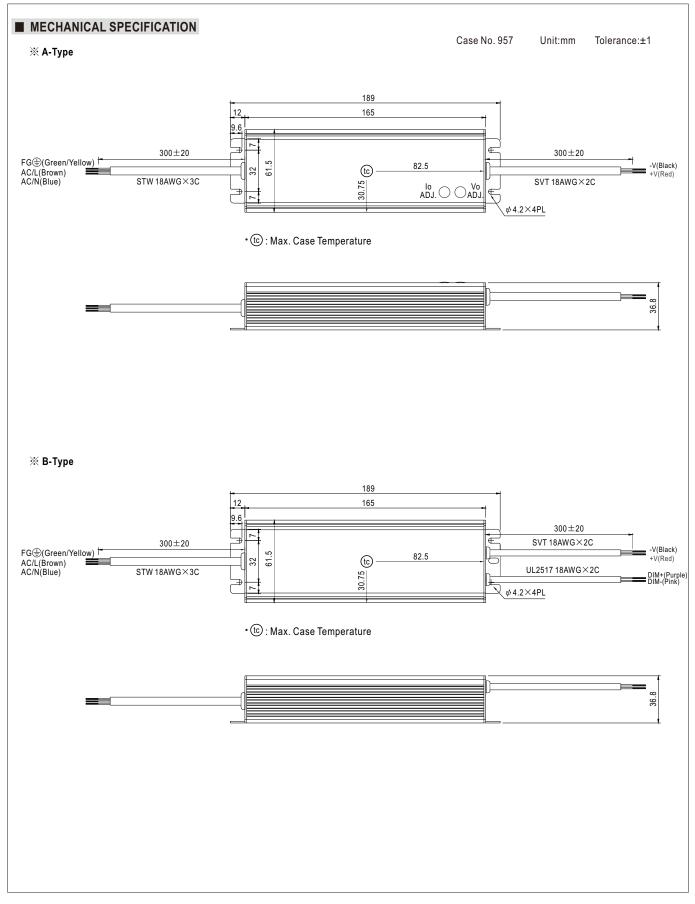






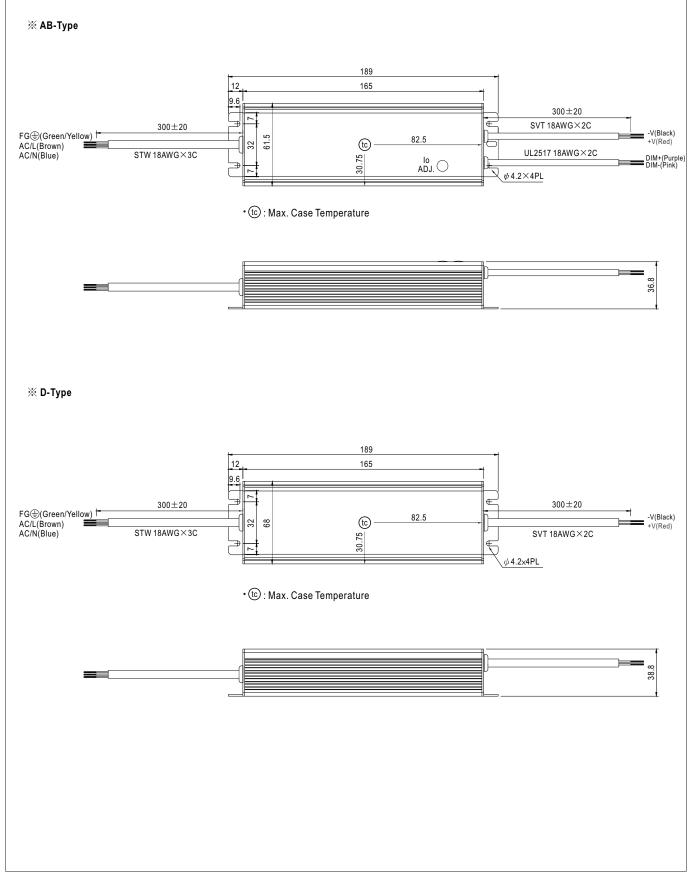








HVG-65 series



File Name:HVG-65-SPEC 2024-10-11



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.

