









Features

- Wide input range 180 ~ 528VAC
- · Constant Current mode output
- · Metal housing with Class I design
- · Built-in active PFC function
- IP67 / IP65 design 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

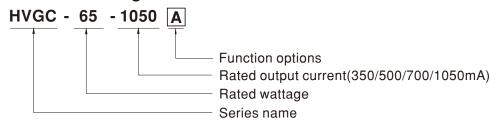
■ GTIN CODE

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

Description

HVGC-65 series is a 65W LED AC/DC LED power supply featuring the constant current mode and high voltage output. HVGC-65 operates from 180~528VAC and offers models with different rated current ranging between 350mA and 1050mA. Thanks to the high efficiency up to 90.5%, with the fanless design, the entire series is able to operate for -40°C \sim +80°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. HVGC-65 is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.

■ Model Encoding



Туре	IP Level	Function	Note
Α	IP65	Io 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	Timer dimming function, contact MEAN WELL for details(safety pending).	By request



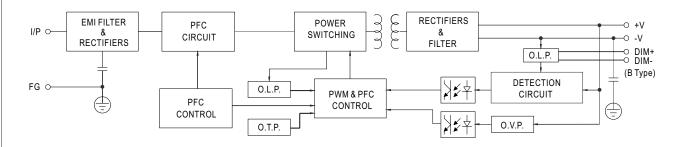
SPECIFICATION

MODEL		HVGC-65-350	HVGC-65-500	HVGC-65-700	HVGC-65-1050			
	RATED CURRENT	350mA	500mA	700mA	1050mA			
OUTPUT -	RATED POWER	65.1W	65W	65.1W	65.1W			
	CONSTANT CURRENT REGION Note.2		13 ~ 130V	9 ~ 93V	6 ~ 62V			
		Adjustable for A/AB-Type only (via the built-in potentiometer)						
	CURRENT ADJ. RANGE	210 ~ 350mA	300 ~ 500mA	420 ~ 700mA	630 ~ 1050mA			
	CURRENT TOLERANCE	±5.0%	000 00011111	120 7001111	100011111			
		5.0% max. @rated current						
		500ms / 230Vac 400ms / 347V	/Δ					
	OLI OI TIME NOIC.4							
	VOLTAGE RANGE Note.3	111 121111 21112 11112						
	FREQUENCY RANGE	47 ~ 63Hz						
	TREGOLITOTRATOL	$PF \ge 0.98/230VAC$, $PF \ge 0.97/277VAC$, $PF \ge 0.95/347VAC$, $PF \ge 0.93/480VAC$ @full load						
	POWER FACTOR (Typ.)	PP \(\subseteq 0.90/230VAC, PP \(\subseteq 0.91/277VAC, PP \(\subseteq 0.95/47VAC, PP \(\subseteq 0.93/480VAC \) (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)						
		THD<20%(@load≥60%/230VAC, 277VAC, 347VAC; @load≥75%/480VAC)						
	TOTAL HARMONIC DISTORTION	THDS 20% (@ 10a0 \(\sigma 00% / 230 VAC, 277 VAC, 347 VAC, \(\sigma 00a0 \(\sigma 75% / 480 VAC) \) (Please refer to "TOTAL HARMONIC DISTORTION (THD)" section)						
INPUT	EFFICIENCY (Typ.)	90%	90.5%	90.5%	90%			
• .	AC CURRENT (Typ.)	0.22A / 347VAC		30.070	3070			
	INRUSH CURRENT (Typ.)		measured at 50% Ipeak) at 480VAC	· Per NFMA 410				
	MAX. No. of PSUs on 16A	2 2 2 2 3 3 4 1 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		,				
	CIRCUIT BREAKER	12 units (circuit breaker of type	B) / 20 units (circuit breaker of ty	pe C) at 480VAC				
	LEAKAGE CURRENT	<0.75mA / 480VAC						
			ers automatically after fault condi	tion is removed				
	SHORT CIRCUIT	195 ~ 210V	137 ~ 150V	98 ~ 107V	65 ~ 72V			
PROTECTION	OVER VOLTAGE		o-recovery or re-power on to rec		05~120			
	OVED TEMPEDATURE		rs automatically after temperatu					
	OVER TEMPERATURE		r to "OUTPUT LOAD vs TEMPER					
	WORKING TEMP.	,	TIO OUTPUT LOAD VS TEIVIPER	ATURE Section)				
	MAX. CASE TEMP.	Tcase=+80°C						
ENV//DOMMENT	WORKING HUMIDITY	20 ~ 95% RH non-condensing						
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH						
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)						
	VIBRATION		period for 72min. each along X, Y		A forder or deat			
	SAFETY STANDARDS	EAC TP TC 004, IP65 or IP67 app		EN/EN61347-2-13, BS EN/EN6238	4, Independent,			
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC						
SAFETY &	ISOLATION RESISTANCE							
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH						
	EMC EMISSION Note.6	Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (@ load≧60%) ; BS EN/EN61000-3-3, FCC Part 15 Subpart B, EAC TP TC 020						
		Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61547, light industry level (surge immunity Line-Earth 4KV,						
	EMC IMMUNITY	Line-Line 2KV), EAC TP TC 020						
	MTBF	2164.4K hrs min. Telcordia S	R-332 (Bellcore) ; 202.8K hrs mir	n. MIL-HDBK-217F (25°C)				
OTHERS	DIMENSION	189*61.5*36.8mm (L*W*H)		, ,				
	PACKING	0.77Kg; 18pcs/14.9Kg/0.89CUF	T					
NOTE	1. All parameters NOT specially	y mentioned are measured at 34	17VAC input, rated current and 2	25°C of ambient temperature.				
NOTE	. Please refer to "DRIVING METHODS OF LED MODULE".							
	3. Please refer to "STATIC CHARACTERISTIC" sections for details.							
	 4. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time. 5. It is measured 50%~100% of maximum voltage under rated power delivery. 							
	6. 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)							
	7. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED driver can only be used behind a switch without permanently							
	connected to the mains. 8. This series meets the typical life expectancy of >50,000 hours of operation when Trace, particularly (to) point (or TMP, per DLC), is about 75°C or less							
	8. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (tc) 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.							
	9. Please refer to the warranty statement on MEAN WELL'S website at http://www.meanweil.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. This product is intended for North America and ELL lighting equipment application. Please contact your MEAN WELL calculifyou have other using							
	12. This product is intended for North America and EU lighting equipment application. Please contact your MEAN WELL sales if you have other using.							
	* Product Liability Disclaimer	ror detailed information, please	e rerer to nttps://www.meanwell.	com/serviceDisclaimer.aspx				



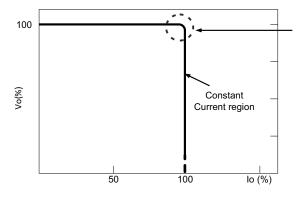
■ Block Diagram

PFC fosc : 65KHz PWM fosc : 75KHz



■ DRIVING METHODS OF LED MODULE

💥 This series works in constant current mode to directly 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.

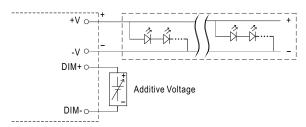


■ DIMMING OPERATION



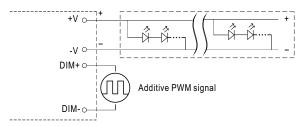
※ 3 in 1 dimming function (for B/AB-Type)

- 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



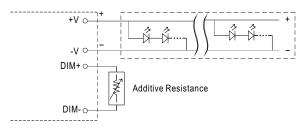
"DO NOT connect "DIM- to -V"

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

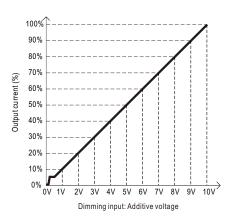


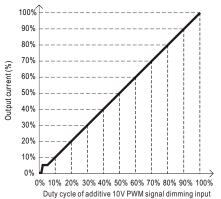
"DO NOT connect "DIM- to -V"

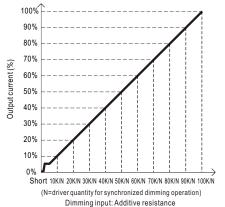
O Applying additive resistance:



"DO NOT connect "DIM- to -V"



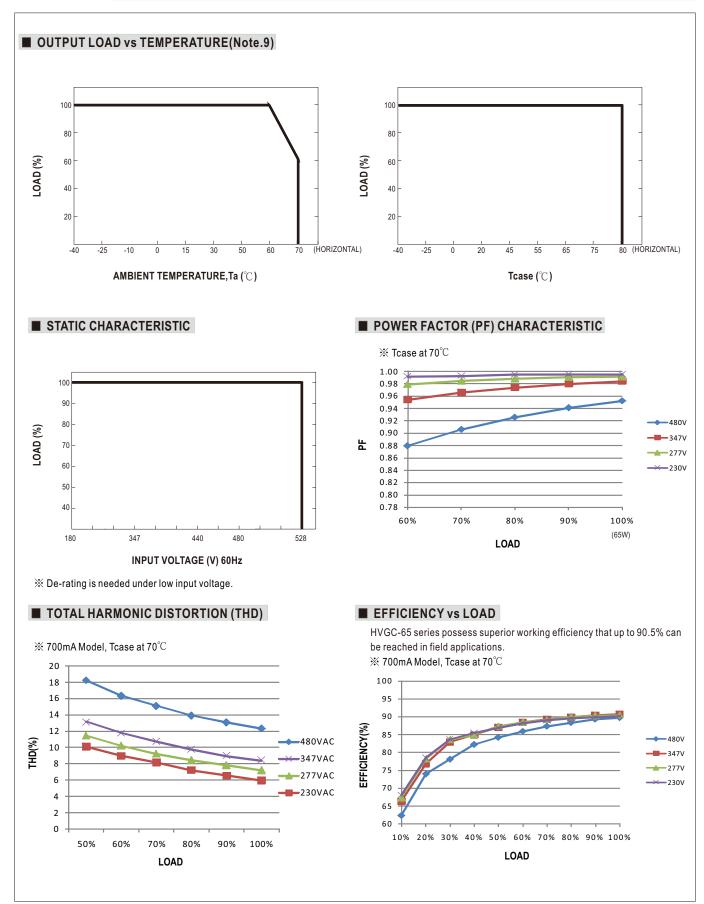




Note: 1. Min. dimming level is about 6% and the output current is not defined when 0% < Iout < 6%.

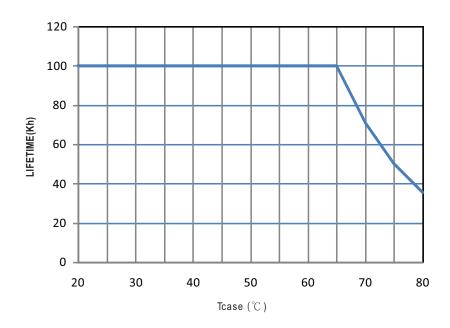
2. The output current could drop down to 0% when dimming input is about 0k Ω or 0Vdc, or 10V PWM signal with 0% duty cycle.



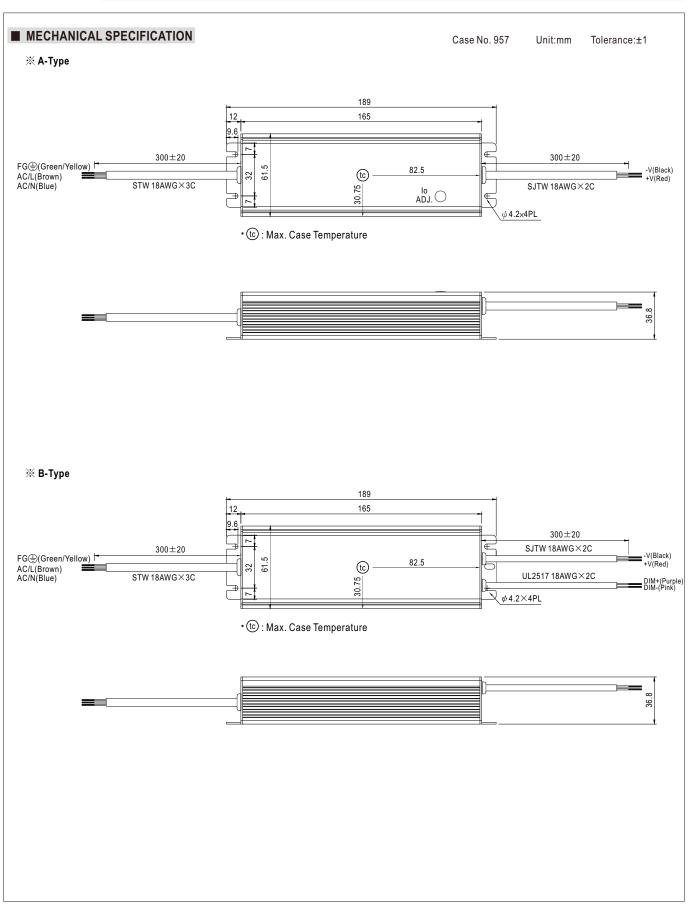




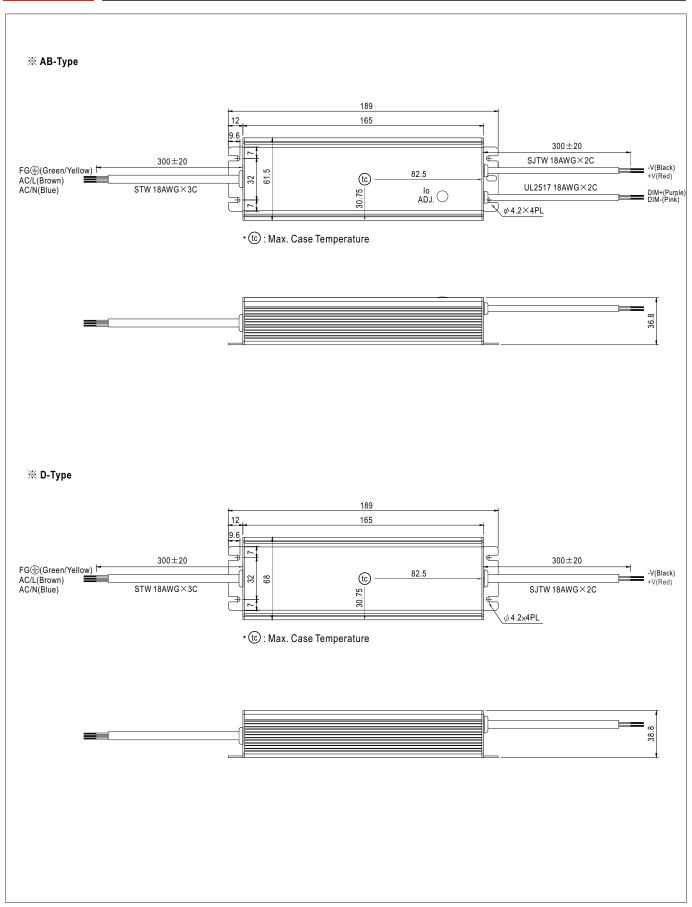
■ LIFE TIME







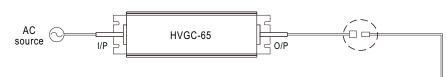




■ WATERPROOF CONNECTION

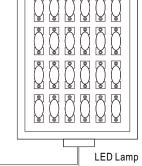
X Waterproof connector

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

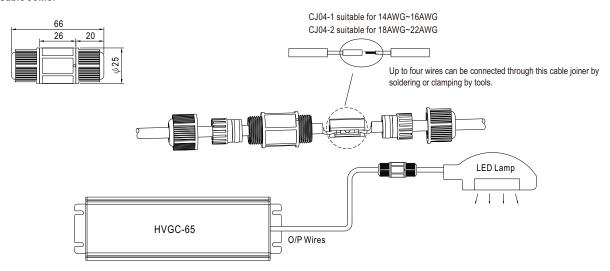


Size	Pin Configuration (Female)		
M12	000	000	
IVITZ	4-PIN	5-PIN	
	5A/PIN	5A/PIN	
Order No.	M12-04	M12-05	
Suitable Current	10A max.	10A max.	

Size	Pin Configuration (Female)	
M15	00	
IVITS	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.

■ INSTALLATION MANUAL

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