







■ 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

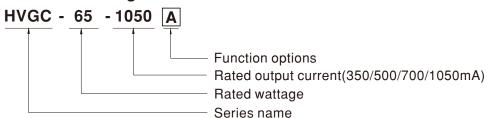
■ GTIN CODE

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 $180\sim528$ VAC 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 $\sim +80^{\circ}$ 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. 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



Type	IP Level	Function	Note
Α	IP65	lo 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



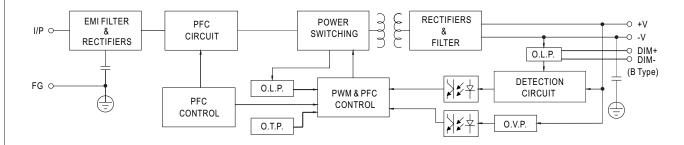
SPECIFICATION

MODEL		HVGC-65-350	HVGC-65-500	HVGC-65-700	HVGC-65-1050						
	RATED CURRENT	350mA	500mA	700mA	1050mA						
ОИТРИТ	RATED POWER	65.1W	65W	65.1W	65.1W						
	CONSTANT CURRENT REGION Note.2	18 ~ 186V	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%	000 000	120 1001111							
		5 5.0% max. @rated current									
		500ms / 230Vac 400ms / 347V	/AC //80\/AC								
	OLI OF HIVE NOTE		,								
	VOLTAGE RANGE Note.3	180 ~ 528VAC 254VDC ~ 747VDC									
	FREQUENCY RANGE	(Please refer to STATIC CHARACTERISTIC Section)									
	FREQUENCT RANGE	47 ~ 63Hz									
	POWER FACTOR (Typ.)	$PF \ge 0.98/230VAC$, $PF \ge 0.97/277VAC$, $PF \ge 0.95/347VAC$, $PF \ge 0.93/480VAC$ @full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)									
		(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section) THD<20%(@ load≥60%/230VAC, 277VAC, 347VAC; @ load≥75%/480VAC)									
	TOTAL HARMONIC DISTORTION	(Please refer to "TOTAL HARM		,							
INPUT	EFFICIENCY (Turn)	90%	, ,		000/						
INPUI	EFFICIENCY (Typ.)		90.5%	90.5%	90%						
	AC CURRENT (Typ.) INRUSH CURRENT (Typ.)	0.22A / 347VAC		N/AC: Por NEMA 410							
	()1 /	COLD START 25A(twidth=420µs measured at 50% lpeak) 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									
	SHORT CIRCUIT	Constant current limiting, recov			1						
PROTECTION	OVER VOLTAGE	195 ~ 210V	137 ~ 150V	98 ~ 107V	65 ~ 72V						
		Shut down o/p voltage with au		<u> </u>							
	OVER TEMPERATURE	Shut down o/p voltage, recove									
	WORKING TEMP.	Tcase=-40 ~ +80°C (Please refe	er to "OUTPUT LOAD vs TEM	PERATURE" section)							
	MAX. CASE TEMP.	Tcase=+80°C									
	WORKING HUMIDITY	20 ~ 95% RH non-condensing									
ENVIRONMENT	STORAGE TEMP., HUMIDITY										
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)									
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes									
	SAFETY STANDARDS	AFETY STANDARDS UL8750, CSA C22.2 No. 250.13-12, ENEC BS EN/EN61347-1, BS EN/EN61347-2-13, BS EN/EN62384, inde EAC TP TC 004, IP65 or IP67 approved									
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC									
-	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH									
EMC	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									
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61547, light industry level (surge immunity Line-Earth 4KV, Line-Line 2KV), EAC TP TC 020									
	MTBF	2164.4K hrs min. Telcordia SR-332 (Bellcore) ; 202.8K hrs min. 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		y mentioned are measured at 3	47VAC input, rated current a	and 25°C of ambient temperatu	ire.						
NOIL	2. Please refer to "DRIVING M										
	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									
	7. To fulfill requirements of the	latest LIF regulation for lighting		connected to the mains. 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.							
	7. To fulfill requirements of the connected to the mains.		urs of operation when Topon	narticularly (to point (or TMD	ner DLC) is about 75°C or loss						
	To fulfill requirements of the connected to the mains. This series meets the typica	l life expectancy of >50,000 hou	·		per DLC), is about 75℃ or less.						
	7. To fulfill requirements of the connected to the mains. 8. This series meets the typica 9. Please refer to the warranty	I life expectancy of >50,000 hou statement on MEAN WELL's w	ebsite at http://www.meanwe	ell.com.							
	7. To fulfill requirements of the connected to the mains. 8. This series meets the typica 9. Please refer to the warranty 10. The ambient temperature of 11. For any application note an	I life expectancy of >50,000 hou statement on MEAN WELL's w derating of 3.5°C/1000m with far and IP water proof function installa	ebsite at http://www.meanwenless models and of $5^{\circ}\text{C}/100$	ell.com. 10m with fan models for operat	per DLC), is about 75℃ or less. ing altitude higher than 2000m(6500						
	7. To fulfill requirements of the connected to the mains. 8. This series meets the typica 9. Please refer to the warranty 10. The ambient temperature of 11. For any application note an https://www.meanwell.com/	I life expectancy of >50,000 hou statement on MEAN WELL's w derating of 3.5°C/1000m with far and IP water proof function installa	ebsite at http://www.meanwe nless models and of 5°C/100 ation caution, please refer ou	ell.com. 10m with fan models for operat ur user manual before using.	ing altitude higher than 2000m(6500						



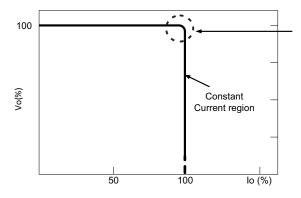
■ Block Diagram

PFC fosc : 65KHz PWM fosc : 75KHz



■ DRIVING METHODS OF LED MODULE

※ This series works in constant current mode to directly drive the LEDs.



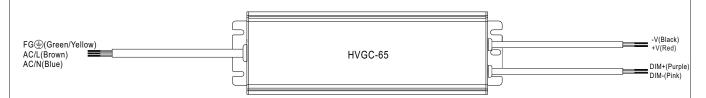
Typical output current normalized by rated current (%)

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.

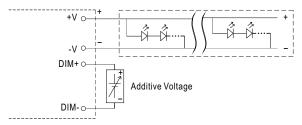


■ DIMMING OPERATION



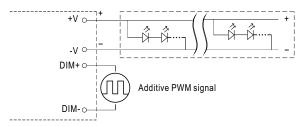
※ 3 in 1 dimming function (for B/AB-Type)

- 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



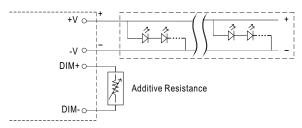
"DO NOT connect "DIM- to -V"

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

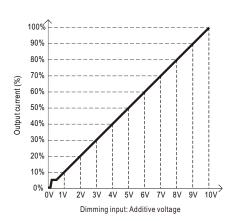


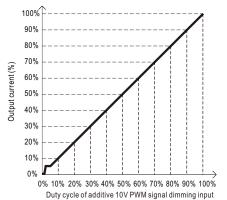
"DO NOT connect "DIM- to -V"

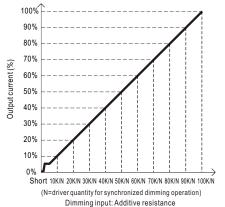
Applying additive resistance:



"DO NOT connect "DIM- to -V"



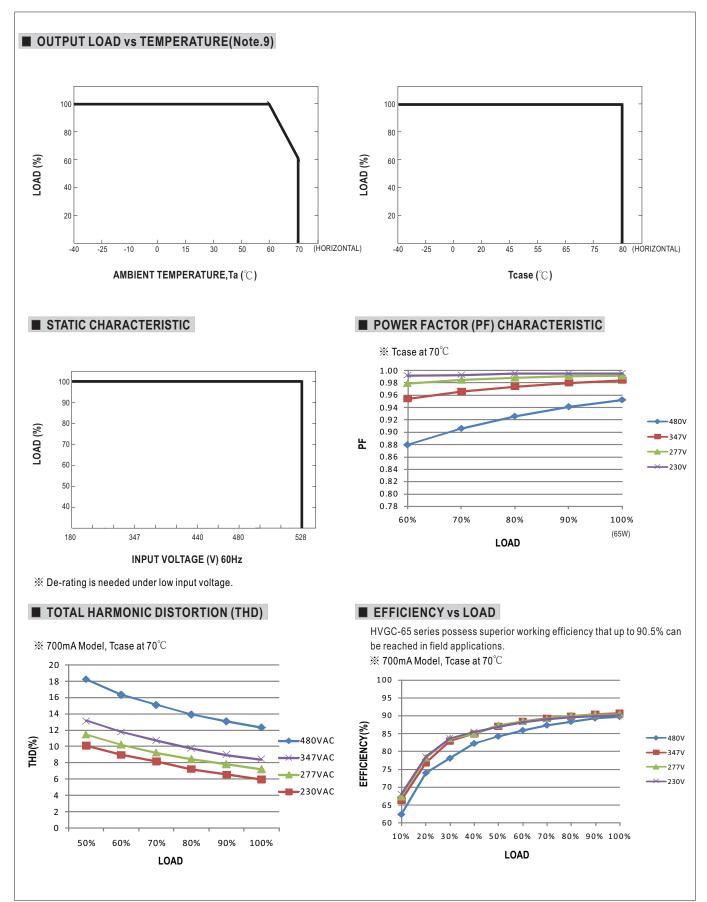




Note: 1. Min. dimming level is about 6% and the output current is not defined when 0% < Iout < 6%.

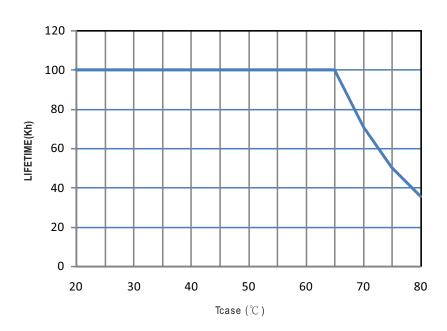
2. The output current could drop down to 0% when dimming input is about 0kΩ or 0Vdc, or 10V PWM signal with 0% duty cycle.



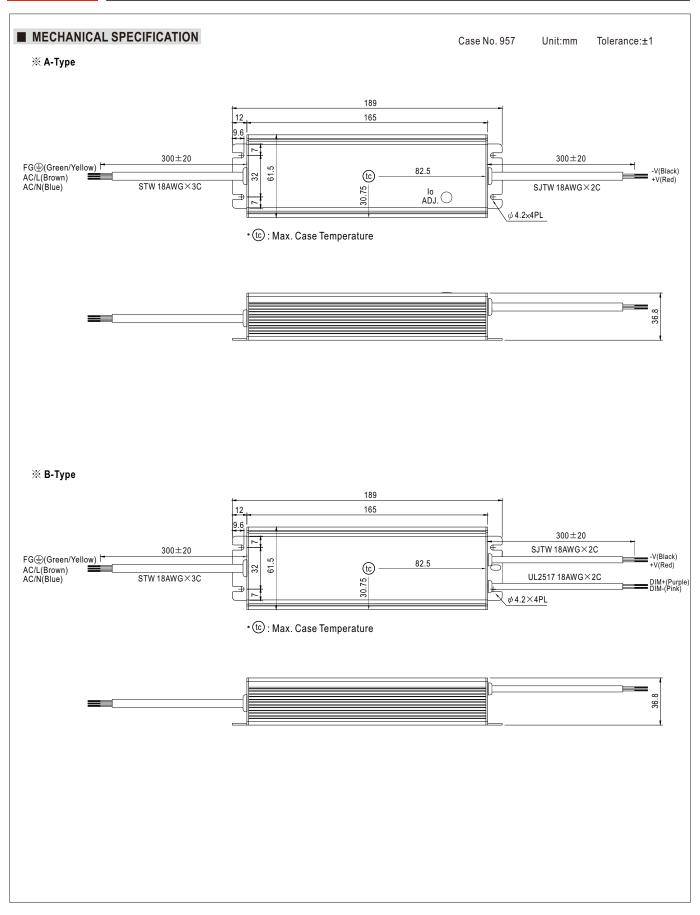




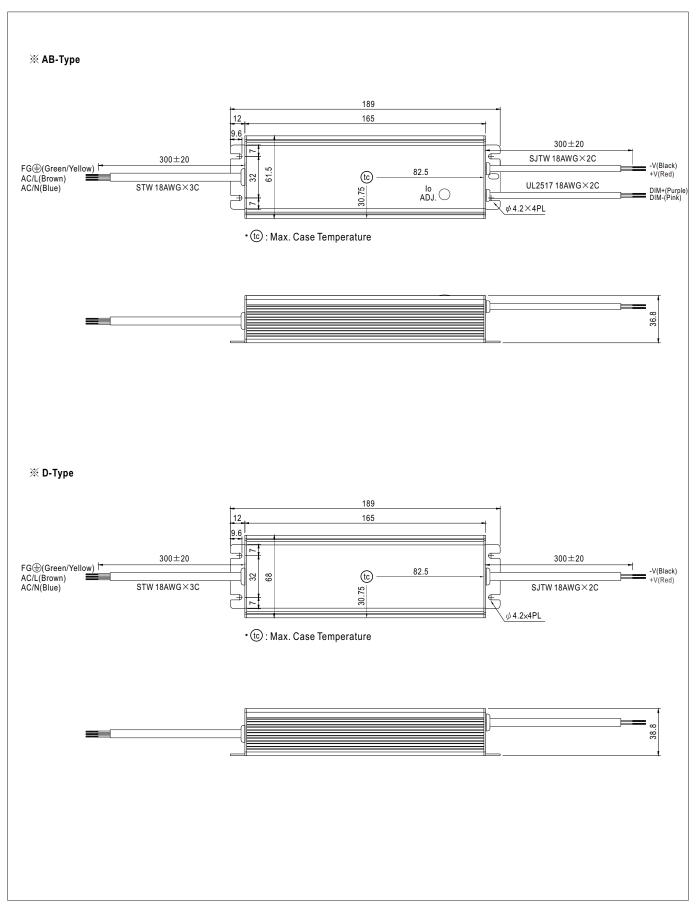
■ LIFE TIME







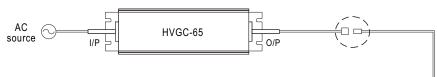




■ WATERPROOF CONNECTION

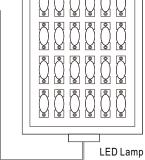
X Waterproof connector

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

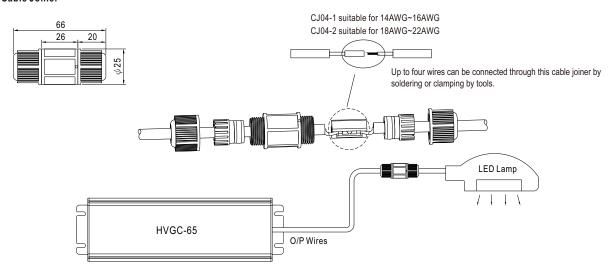


Size	Pin Configuration (Female)		
M12	000	000	
IVITZ	4-PIN	5-PIN	
	5A/PIN	5A/PIN	
Order No.	M12-04	M12-05	
Suitable Current	10A max.	10A max.	

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