









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

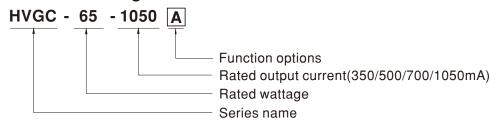
■ GTIN CODE

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



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 lo 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



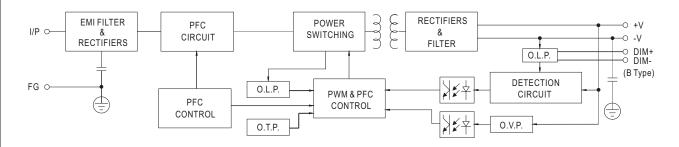
SPECIFICATION

MODEL		HVGC-65-350	HVGC-65-500	HVGC-65-700	HVGC-65-1050		
	RATED CURRENT	350mA	500mA	700mA	1050mA		
	RATED POWER	65.1W	65W	65.1W	65.1W		
	CONSTANT CURRENT REGION Note.2		13 ~ 130V	9 ~ 93V	6 ~ 62V		
OUTPUT	CONCIANT CONNENT REGION NO.C.2	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%	300 ~ 300IIIA	420 ~ 700IIIA	030 ~ 1030111A		
	CURRENT TOLERANCE						
		5.0% max. @rated current					
	SET UP TIME Note.4	500ms/230Vac 400ms/347					
	VOLTAGE RANGE Note.3	180 ~ 528VAC 254VDC ~ 747VDC					
		(Please refer to STATIC CHARACTERISTIC Section)					
	FREQUENCY RANGE	47 ~ 63Hz					
	POWER FACTOR (Typ.)	$\label{eq:pf} PF \ge 0.98/230 \text{VAC}, PF \ge 0.97/277 \text{VAC}, PF \ge 0.95/347 \text{VAC}, PF \ge 0.93/480 \text{VAC} \ \textcircled{@full load} $ $(Please \ refer \ to \ "POWER \ FACTOR \ (PF) \ CHARACTERISTIC" \ section)$					
	TOTAL HARMONIC DISTORTION	THD< 20%(@ load ≥ 60%/230VAC, 277VAC, 347VAC; @ load ≥ 75%/480VAC) (Please refer to "TOTAL HARMONIC DISTORTION (THD)" section)					
INPUT	EFFICIENCY (Typ.)	90%	90.5%	90.5%	90%		
	AC CURRENT (Typ.)	0.22A / 347VAC	80VAC				
	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						
	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed					
	UNDICTION OF THE PROPERTY OF T	195 ~ 210V	137 ~ 150V	98 ~ 107V	65 ~ 72V		
PROTECTION	OVER VOLTAGE	Shut down o/p voltage with au	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 ** . * . *	03 - 12 V		
	OVED TEMPEDATURE	Shut down o/p voltage, recover		·			
	OVER TEMPERATURE			•			
	WORKING TEMP.	Tcase=-40 ~ +80°C (Please refe	er to "OUTPUT LOAD VS T	EMPERATURE section)			
	MAX. CASE TEMP.	Tcase=+80°C					
	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	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes					
	SAFETY STANDARDS	UL8750, CSA C22.2 No. 250.13-12, ENEC BS EN/EN61347-1, BS EN/EN61347-2-13, BS EN/EN62384, independent, 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:100N	M 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					
	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/0.89CUI	FT				
NOTE				nt and 25°C of ambient temperat	ture.		
NUIE	2. Please refer to "DRIVING METHODS OF LED MODULE".						
	3. Please refer to "STATIC CHARACTERISTIC" sections for details.						
		oly may lead to increase of the se	et 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 exercised in combination with final equipment. Since EMC performance will be effected by the						
	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. 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 Tcase, particularly (tc) point (or TMP, per DLC), is about 75°C or less.						
	This series meets the typical life expectancy of >50,000 hours of operation when rease, particularly (to) point (or TMP, per DLO), is about 75 C or less. 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						
	Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx						
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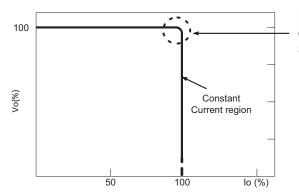
■ Block Diagram

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.

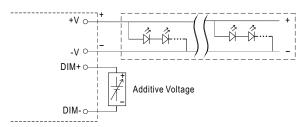


■ DIMMING OPERATION



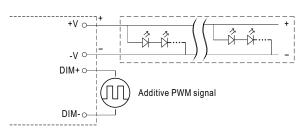
※ 3 in 1 dimming function (for B/AB-Type)

- 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



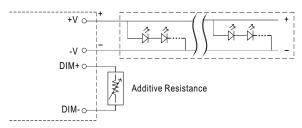
"DO NOT connect "DIM- to -V"

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

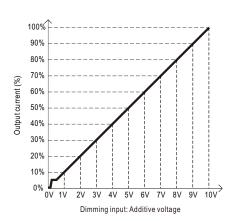


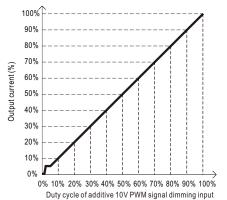
"DO NOT connect "DIM- to -V"

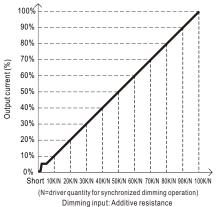
O Applying additive resistance:



"DO NOT connect "DIM- to -V"



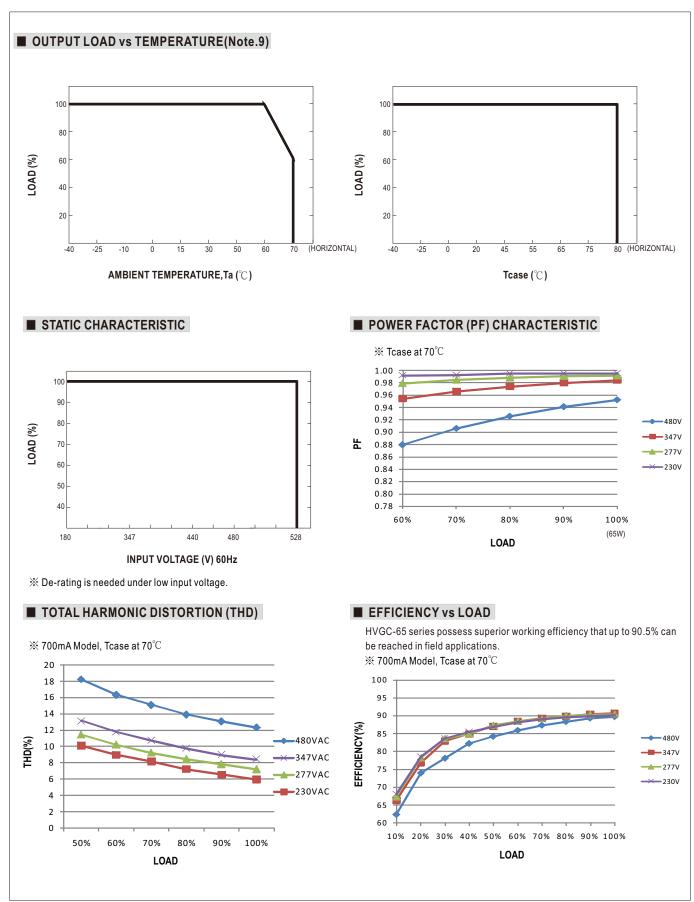




Note: 1. Min. dimming level is about 6% and the output current is not defined when 0% < Iout < 6%.

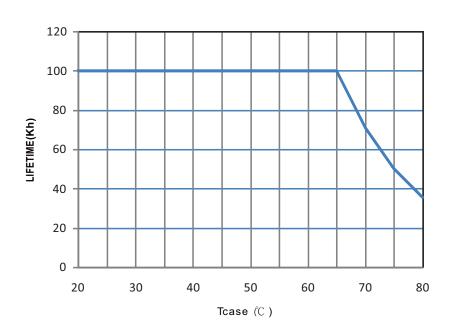
2. The output current could drop down to 0% when dimming input is about 0kΩ or 0Vdc, or 10V PWM signal with 0% duty cycle.



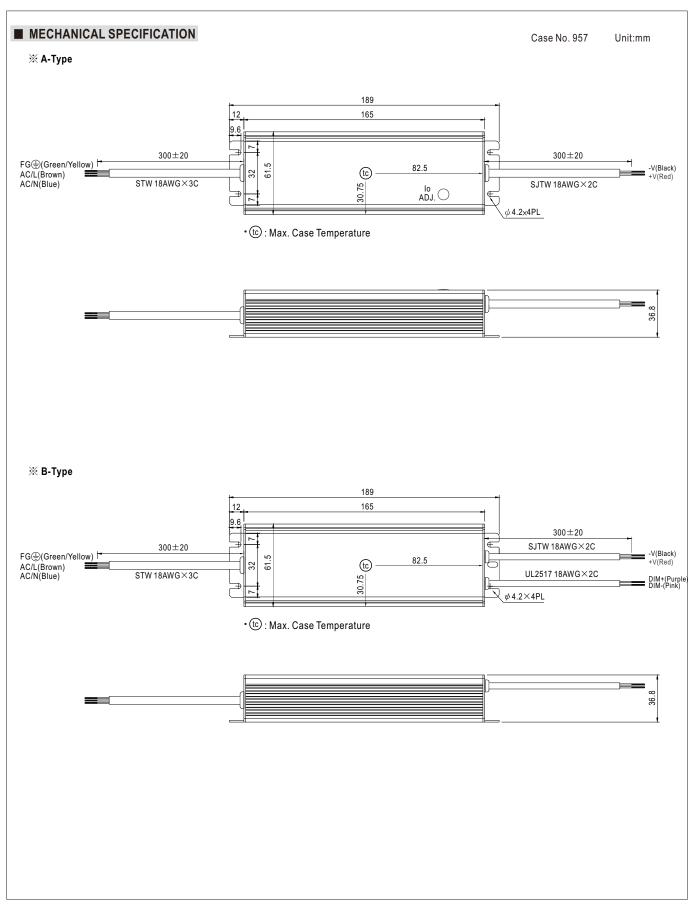




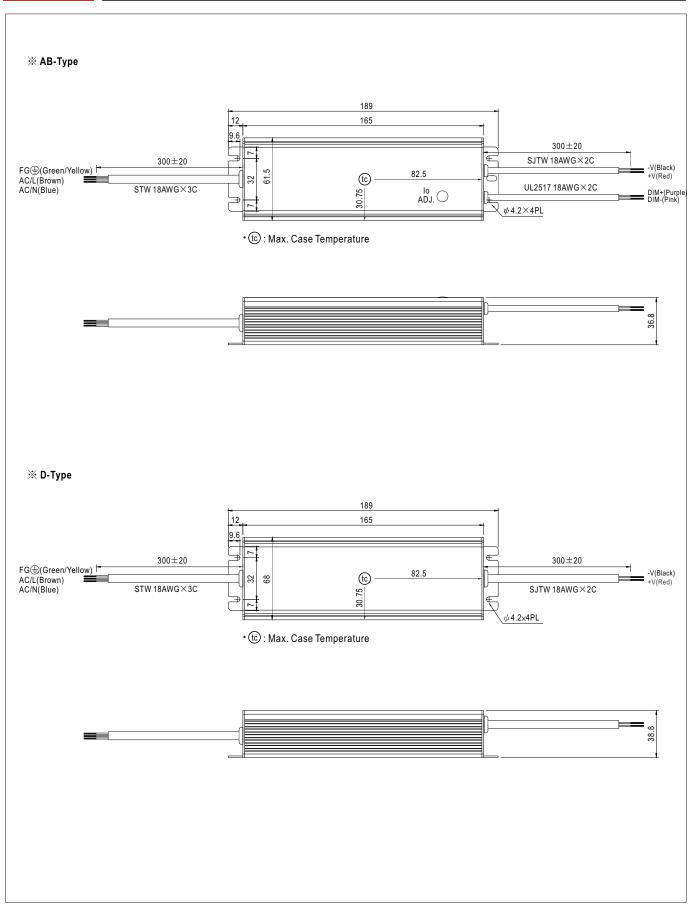
■ LIFE TIME







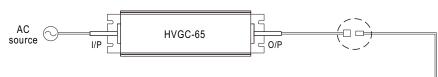




■ WATERPROOF CONNECTION

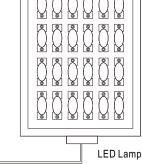
X Waterproof connector

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

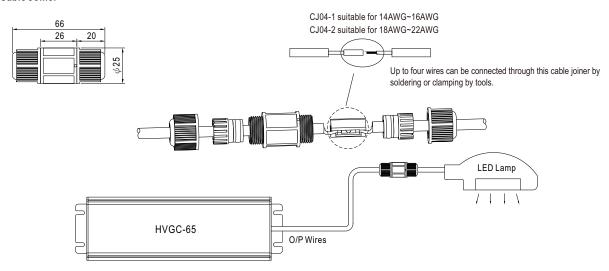


Pin Configuration (Female)			
000	000		
4-PIN	5-PIN		
5A/PIN	5A/PIN		
M12-04	M12-05		
10A max.	10A max.		
	4-PIN 5A/PIN M12-04		

Size	Pin Configuration (Female)		
M15	00		
IVIII	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