







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

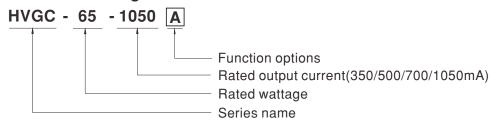
Applications

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

Description

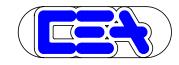
HVGC-65 series is a 65W LED AC/DC LED power supply featuring the constant current mode and high voltage output. HVGC-65 operates from $180\sim528$ VAC and offers models with different rated current ranging between 350mA and 1050mA. Thanks to the high efficiency up to 90.5%, with the fanless design, the 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	Io adjustable through built-in potentiometer.	In Stock
В	IP67	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







HVGC-65 series

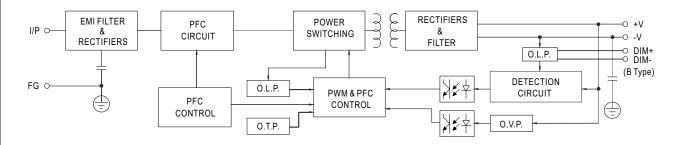
SPECIFICATION

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		
	ONO IN THE OUT RESIDENT ROOM.	Adjustable for A-Type only (via		0 001	0 021		
	CURRENT ADJ. RANGE	210 ~ 350mA	300 ~ 500mA	420 ~ 700mA	630 ~ 1050mA		
	CURRENT TOLERANCE	±5.0%					
	CURRENT RIPPLE Note.5	5.0% max. @rated current					
	SET UP TIME Note.4	4 500ms/230Vac 400ms/347VAC,480VAC					
		180 ~ 528VAC 254VDC ~ 747VDC					
	VOLTAGE RANGE Note.3	(Please refer to "STATIC CHARACTERISTIC" section)					
	FREQUENCY RANGE	47 ~ 63Hz					
INPUT	POWER FACTOR (Typ.)	PF≥0.98/230VAC, PF≥0.97/277VAC, PF≥0.95/347VAC, PF≥0.93/480VAC @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)					
	EFFICIENCY (Typ.)	90%	90.5%	90.5%	90%		
	AC CURRENT (Typ.)	0.22A / 347VAC	1		1		
	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					
	SHORT CIRCUIT	Constant current limiting, recov	vers automatically after fault c	ondition is removed			
		195 ~ 210V	137 ~ 150V	98 ~ 107V	65 ~ 72V		
PROTECTION	OVER VOLTAGE	Shut down o/p voltage with au	ito-recovery or re-power on t	o 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-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 EN61347-1, EN61347-2-13, EN62384, independent, IP65 or IP67 approved					
SAFETY &	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					
LINIO	EMC EMISSION Note.6	6 Compliance to EN55015, EN61000-3-2 Class C (@ load ≥ 60%); EN61000-3-3, FCC Part 15 Subpart B					
	EMC IMMUNITY	Compliance to EN61000-4-2,3,	,4,5,6,8,11, EN61547, light inc	dustry level (surge immunity Lin	e-Earth 4KV, Line-Line 2KV)		
	MTBF	611K hrs min. Telcordia SR-	332 (Bellcore) ; 202.7K hrs m	in. MIL-HDBK-217F (25°C)			
OTHERS	DIMENSION	189*61.5*36.8mm (L*W*H)					
	PACKING	0.77Kg; 18pcs/14.9Kg/0.89CU					
NOTE	2. Please refer to "DRIVING N	cially mentioned are measured at 347VAC input, rated current and 25°C of ambient temperature. G METHODS OF LED MODULE". CHARACTERISTIC" sections for details.					
	4. Length of set up time is me	et up time.					
	5. It is measured 50%~100%	•					
	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. 9. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com						



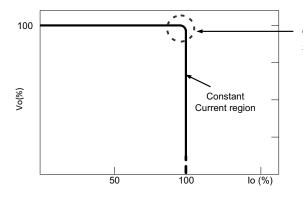
■ Block Diagram

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.



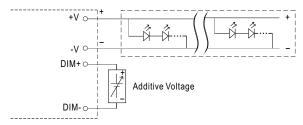
HVGC-65 series





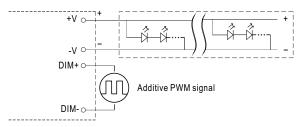
imes 3 in 1 dimming function (for B-Type)

- 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



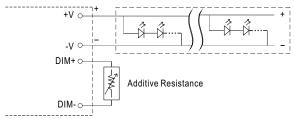
"DO NOT connect "DIM- to -V"

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

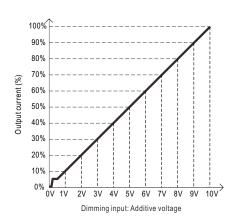


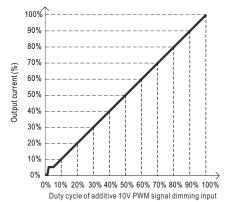
"DO NOT connect "DIM- to -V"

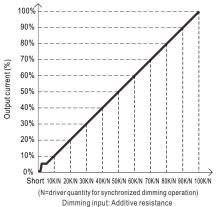
O Applying additive resistance:



"DO NOT connect "DIM- to -V"





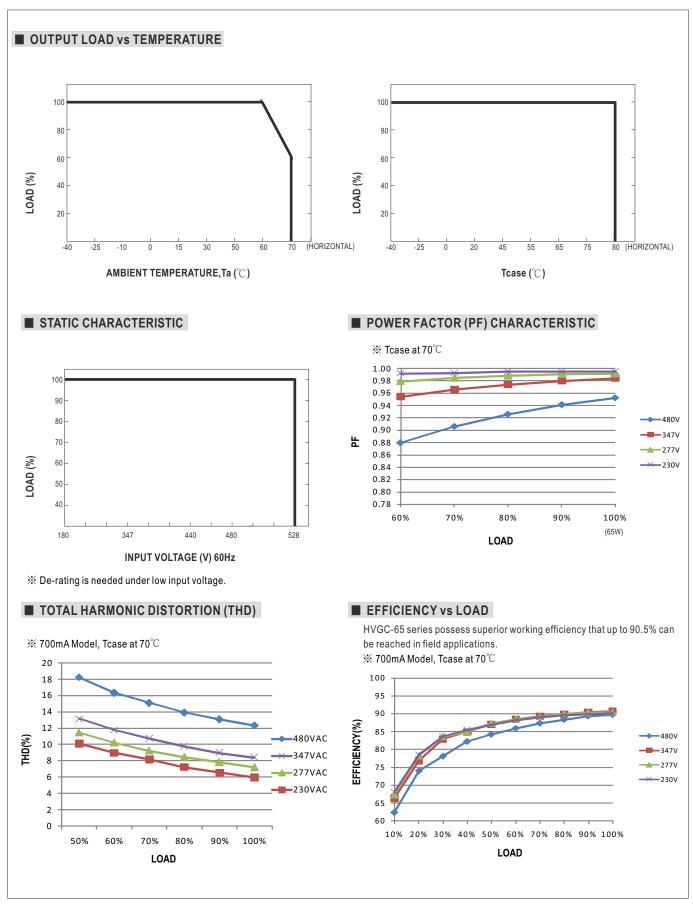


Note: 1. Min. dimming level is about 6% and the output current is not defined when 0%< Iout<6%.

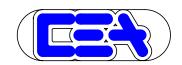
2. The output current could drop down to 0% when dimming input is about $0 \, k\Omega$ or 0Vdc, or 10V PWM signal with 0% duty cycle.



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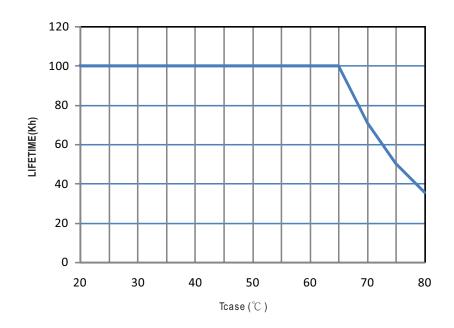




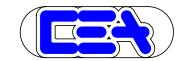




■ LIFE TIME

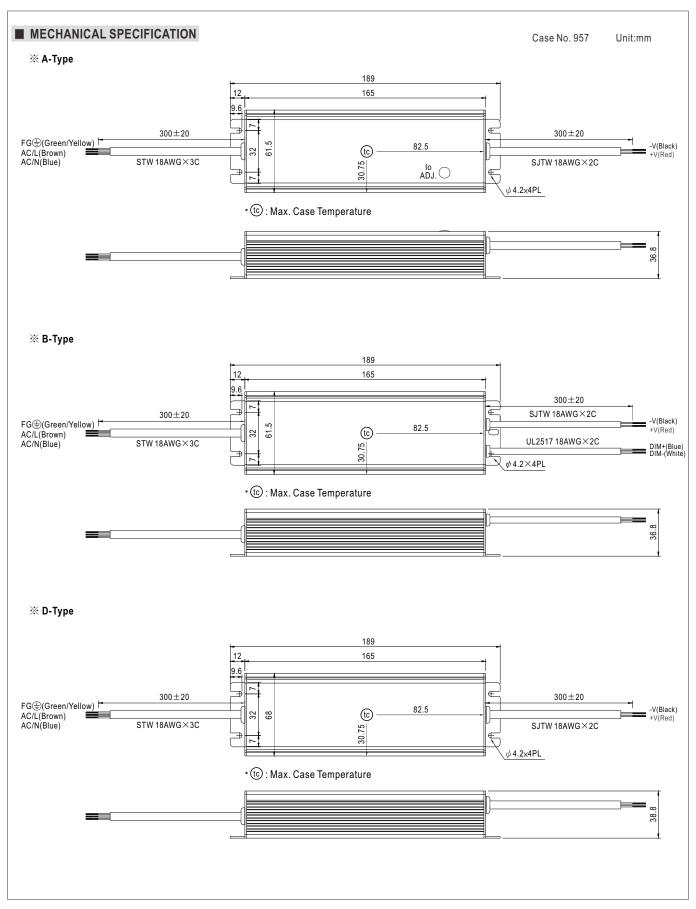




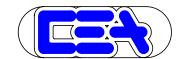




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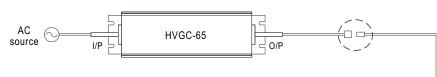


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■ WATERPROOF CONNECTION

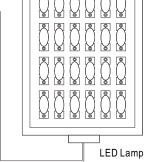
X Waterproof connector

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

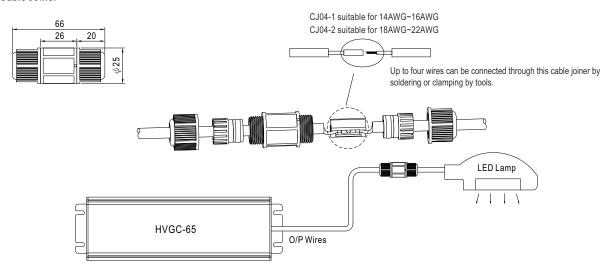


Size	Pin Configuration (Female)			
M12	000	000		
IVITZ	4-PIN	5-PIN		
	5A/PIN	5A/PIN		
Order No.	M12-04	M12-05		
Suitable Current	10A max.	10A max.		

Size	Pin Configuration (Female)		
M15	00		
IVITO	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



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