



■ Features :

- * Wide input range 180~528VAC
- · Built-in active PFC function
- High efficiency up to 90%
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Cooling by free air convection
- OCP point adjustable through output cable or internal potentiometer
- IP67 / IP65 design for indoor or outdoor installations
- · Class 2 power unit
- Three in one dimming function (0~10Vdc or 10V PWM signal or resistance)
- Suitable for LED lighting and street lighting applications
- · Compliance to worldwide safety regulations for lighting
- Suitable for dry / damp / wet locations
- 5 years warranty (Note.9)





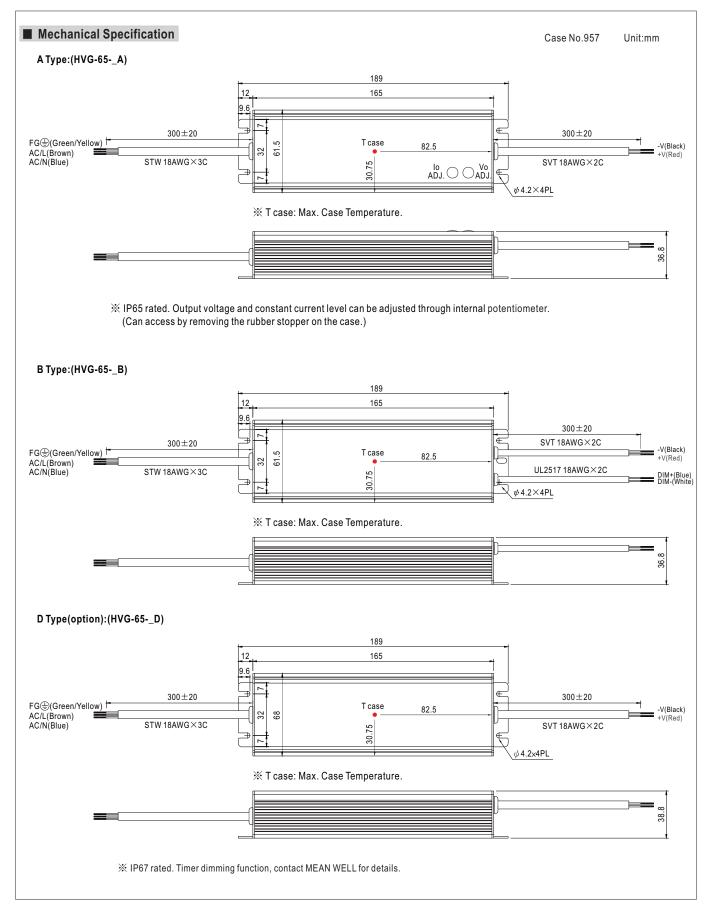
- A: IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.
- $B: IP67\ rated.\ Constant\ current\ level\ adjustable\ through\ output\ cable\ with\ 0\sim10Vdc\ or\ 10V\ PWM\ signal\ or\ resistance.$
- D (option): IP67 rated. Timer dimming function, contact MEAN WELL for details.

SPECIFICATION

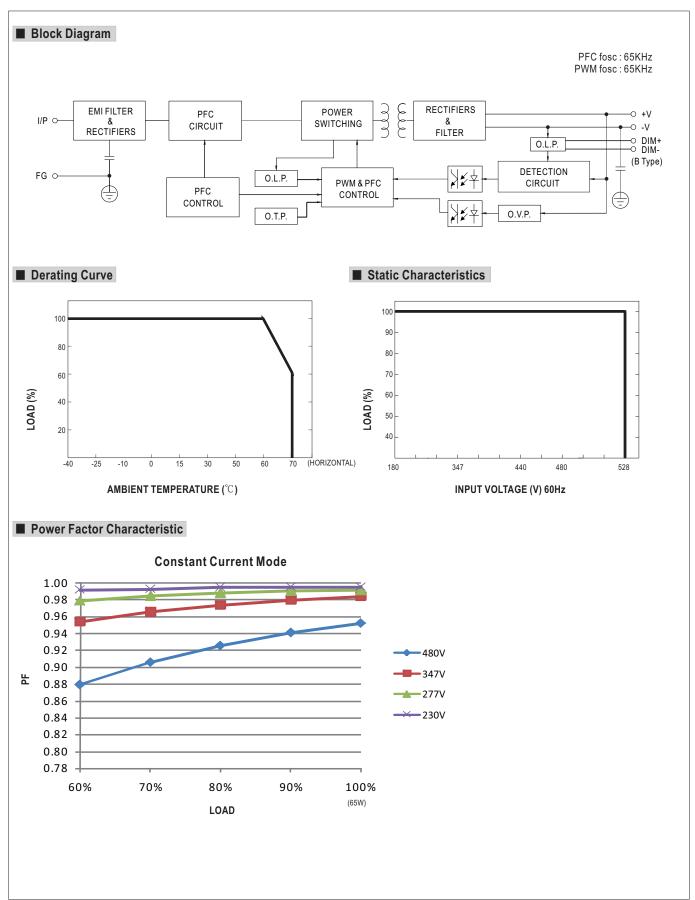
MODEL		HVG-65-12	HVG-65-15	HVG-65-20	HVG-65-24	HVG-65-30	HVG-65-36	HVG-65-42	HVG-65-48	HVG-65-54		
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V		
	CONSTANT CURRENT REGION Note.4	7.2 ~12V	9 ~ 15V	12 ~ 20V	14.4 ~ 24V	18 ~ 30V	21.6 ~ 36V	25.2 ~ 42V	28.8 ~ 48V	32.4 ~ 54V		
	RATED CURRENT	5A	4.3A	3.25A	2.71A	2.17A	1.81A	1.55A	1.36A	1.21A		
	RATED POWER	60W	64.5W	65W	65W	65.1W	65.2W	65.1W	65.3W	65.3W		
	RIPPLE & NOISE (max.) Note.2	120mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	300mVp-p	300mVp-p	300mVp-p		
	VOLTAGE ADJ. RANGE Note.6	10.8 ~ 13.5V	13.5 ~ 17V	17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	38 ~ 46V	43 ~ 53V	49 ~ 58V		
		Can be adjusted by internal potentiometer A type only										
OUTPUT	CURRENT ADJ. RANGE	3 ~ 5A 2.58 ~ 4.3A 1.95 ~ 3.25A 1.62 ~ 2.71A 1.3 ~ 2.17A 1.08 ~ 1.81A 0.93 ~ 1.55A 0.81 ~ 1.36A 0.72 ~ 1.21A										
	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%		
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	LOAD REGULATION	±1.5%	±1.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
					47VAC / 480VA							
	SETUP, RISE TIME				0ms / 347VAC		i% load					
	HOLD UP TIME (Typ.)	16ms / 347VA	-	480VAC at full		, 1001/10 01 00	70 1044					
	VOLTAGE RANGE Note.5	180 ~ 528VAC		: ~ 747VDC	loud							
	FREQUENCY RANGE	47 ~ 63Hz	204100	747700								
	POWER FACTOR (Typ.)											
	TOWERTAGIOR (Typ.)	PF≥0.98/230VAC, PF≥0.97/277VAC, PF≥0.97/347VAC, PF≥0.93/480VAC at full load (Please refer to "Power Factor Characteristic"curve) Total harmonic distortion will be lower than 20% when output loading is 60% or higher at 230VAC / 277VAC / 347VAC										
	TOTAL HARMONIC DISTORTION	Total harmonic distortion will be lower than 20% when output loading is 75% or higher at 480VAC										
INPUT	EFFICIENCY (Typ.)	86.5%	87.5%	88.5%	89%	89%	89.5%	89.5%	90%	90%		
INFUI	AC CURRENT (Typ.)	0.22A / 347VA		/ 480VAC	09%	0970	09.5%	03.3 /0	30 /0	30 /0		
	INRUSH CURRENT (Typ.)	COLD START 25A(twidth=420µs measured at 50% lpeak) at 480VAC										
	MAX. No. of PSUs on 16A	OCLU OTATA ZONA MICASUICU AL OU /U IPEAK) AL TOUVAO										
	CIRCUIT BREAKER 12 units (circuit breaker of type B) / 20 units (circuit breaker of type C) at 480VAC											
	LEAKAGE CURRENT	<0.75mA / 480	OVAC									
	OVER CURRENT	95~108%										
	OVER CORRENT	Protection type: Constant current limiting, recovers automatically after fault condition is removed										
PROTECTION	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed										
PROTECTION	01/50 1/01 74 05	14.4 ~ 16.8V	18 ~ 21V	23 ~ 27V	28 ~ 34V	34 ~ 38V	41 ~ 46V	47 ~ 53V	54 ~ 60V	59 ~ 65V		
	OVER VOLTAGE	Protection type : Shut down o/p voltage with auto-recovery or re-power on to recovery										
	OVER TEMPERATURE	Shut down o/	p voltage, rec	overs automat	ically after tem	perature goes	down					
	WORKING TEMP.	-40 ~ +70°C (Refer to "Derat	ting Curve")								
	WORKING HUMIDITY	20 ~ 95% RH	non-condensir	ng								
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C,	10 ~ 95% RH									
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)										
	VIBRATION	10 ~ 500Hz. 5	G 12min./1cvc	le, period for 7	72min. each alc	ng X. Y. Z axes	3					
	SAFETY STANDARDS Note.7		<u>.</u>		IP67 approved							
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC										
SAFETY &	ISOLATION RESISTANCE											
EMC	EMC EMISSION	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH Compliance to EN55015, EN61000-3-2 Class C (≥60% load); EN61000-3-3, FCC part 15 class B										
	EMC IMMUNITY				EN61547, light							
	MTBF	208K hrs min.		-217F (25°C)	LINO 1047, light	madati y icver (Julyo Hitv), or	itoria A				
OTHERS	DIMENSION	189*61.5*36.8		-2171 (23 0)								
OTHERS	PACKING		, ,	CUFT								
		0.77Kg; 18pcs/14.9Kg/0.89CUFT										
NOTE	 Ripple & noise are measure Tolerance : includes set up Please refer to "DRIVING N 	ed at 20MHz o tolerance, line METHODS OF nder low input	er low input voltages. Please check the static characteristics for more details.									

- 8. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)
- 9. Refer to warranty statement.
- 10. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains.





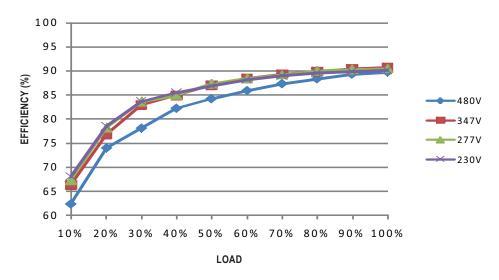






■ EFFICIENCY vs LOAD (48V Model)

HVG-65 series possess superior working efficiency that up to 90% can be reached in field applications.

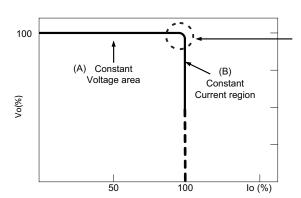


■ DRIVING METHODS OF LED MODULE

There are two major kinds of LED drive method "direct drive" and "with LED driver".

 $A typical \ LED \ power \ supply \ may \ either \ work \ in \ "constant \ voltage \ mode \ (CV) \ or \ constant \ current \ mode \ (CC)" \ to \ drive \ the \ LEDs.$

Mean Well's LED power supply with CV+ CC characteristic can be operated at both CV mode (with LED driver, at area (A) and CC mode (direct drive, at area (B).



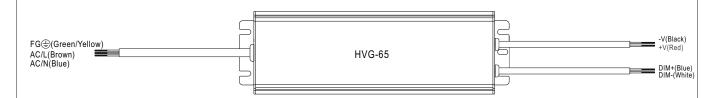
Typical LED power supply I-V curve

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 (for B-type only)



- Built-in 3 in 1 dimming function, IP67 rated. Output constant current level can be adjusted through output cable by connecting a resistance or 0 ~ 10Vdc or 10V PWM signal between DIM+ and DIM-.
- $\frak{\%}$ Please DO NOT connect "DIM-" to "-V".
- * Reference resistance value for output current adjustment (Typical)

Pas	istance	Single driver	Short	10K Ω	20ΚΩ	30K Ω	40K Ω	50K Ω	60K Ω	70K Ω	80KΩ	90K Ω	100K Ω	OPEN
valu		Multiple drivers (N=driver quantity for synchronized dimming operation)	Short	10K Ω /N	20K Ω /N	30K Ω/N	40K Ω/N	50K Ω /N	60K Ω /N	70K Ω /N	80K Ω /N	90K Ω /N	100K Ω /N	
Per	centage	of rated current	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

Dimming value	0V	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Percentage of rated current	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

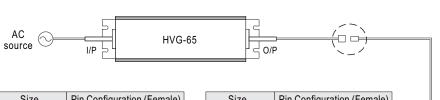
¾ 10V PWM signal for output current adjustment (Typical): Frequency range: 100Hz ~ 3KHz

Duty value	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
Percentage of rated current	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

■ WATERPROOF CONNECTION

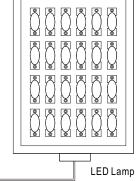
O Waterproof connector

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



Size	Pin Configuration (Female)						
M12	00	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.					





CJ04-1 suitable for 14AWG-16AWG CJ04-2 suitable for 18AWG-22AWG Up to four wires can be connected through this cable joiner by soldering or clamping by tools. HVG-65 O/P Wires

※CJ04 cable joiner can be purchased independently for user's own assembly.

MEAN WELL order No. : CJ04-1, CJ04-2.

Mouser Electronics

Authorized Distributor

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Mean Well:

<u>HVG-65-15A</u> <u>HVG-65-15B</u> <u>HVG-65-54A</u> <u>HVG-65-36B</u> <u>HVG-65-30B</u> <u>HVG-65-12B</u> <u>HVG-65-42A</u> <u>HVG-65-48A</u> <u>HVG-65-48B</u> <u>HVG-65-12A</u> <u>HVG-65-24A</u> <u>HVG-65-30A</u> <u>HVG-65-54B</u> <u>HVG-65-36A</u> <u>HVG-65-24B</u> <u>HVG-65-42B</u> <u>HV</u>