



■ 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 0~10Vdc or 10V PWM signal or resistance.

D (option): IP67 rated. Timer dimming function, contact MEAN WELL for details.

SPECIFICATION

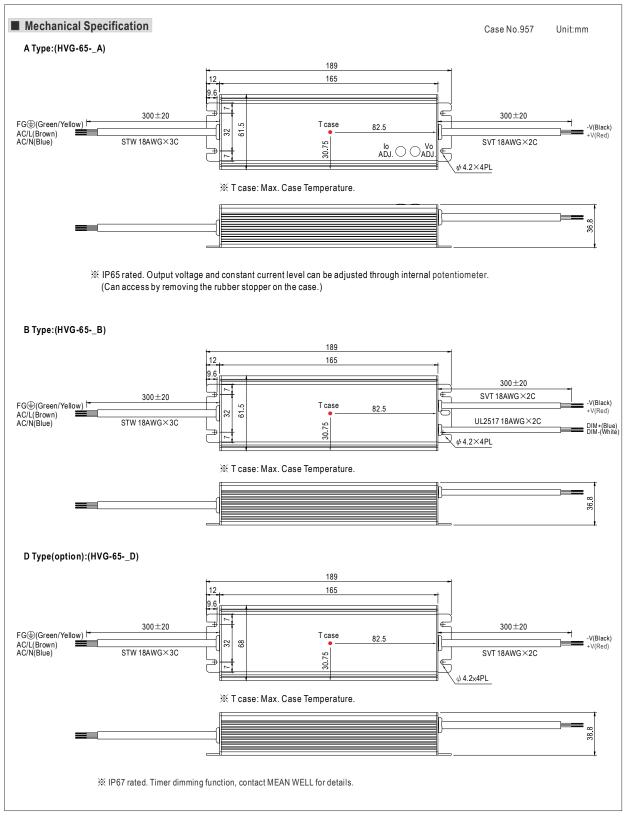
HVG-65-12 A

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										
DUTPUT	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 ~ 1.21/		
	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%		
		500ms, 80ms		00ms, 80ms / 3	47VAC / 480VA	AC at full load						
	SETUP, RISE TIME				347VAC		5% load					
	HOLD UP TIME (Typ.)	16ms / 347VA		480VAC at full		7 100 17 10 01 01	7,01000					
		180 ~ 528VAC		C ~ 747VDC								
	FREQUENCY RANGE	47 ~ 63Hz	204100	7 141100								
	POWER FACTOR (Typ.)		/ΔC PF>0.97/	277VAC PF>0	97/347\/ΔC PE	>n 93/48η\/ΔC	at full load (Ple	ase refer to "Pou	ver Factor Chara	cteristic"curve		
	TOWERTACTOR (Typ.)						,					
INPUT TOTAL HARMONIC DISTORT	TOTAL HARMONIC DISTORTION	Total harmonic distortion will be lower than 20% when output loading is 60% or higher at 230VAC / 277VAC / 347VAC Total harmonic distortion will be lower than 20% when output loading is 75% or higher at 480VAC										
	EFFICIENCY (Typ.)	86.5%	87.5%	88.5%	89%	89%	89.5%	89.5%	90%	90%		
	AC CURRENT (Typ.)	0.22A / 347VA		/ 480VAC	03 /0	0370	03.370	03.370	3070	30 /0		
	INRUSH CURRENT (Typ.)				t 50% Ipeak) at 4	180\/AC						
	LEAKAGE CURRENT			μο measureu a	it 50 /0 ipeak) at -	+00 VAC						
	LEARAGE CORRENT											
	OVER CURRENT	95 ~ 108% Protection two - Constant surrout limiting, recovers outcomplically often fault condition in removed.										
		Protection type: Constant current limiting, recovers automatically after fault condition is removed Constant current limiting, recovers automatically after fault condition is removed										
PROTECTION	SHORT CIRCUIT							47 501/	E4 COV	FO CEV/		
	OVER VOLTAGE	14.4 ~ 16.8V		23 ~ 27V	28 ~ 34V	34 ~ 38V	41 ~ 46V	47 ~ 53V	54 ~ 60V	59 ~ 65V		
					h auto-recover	• •						
	OVER TEMPERATURE				tically after ten	nperature goe:	s down					
	WORKING TEMP.	,	Refer to "Dera	,								
	WORKING HUMIDITY	20 ~ 95% RH non-condensing TY -40 ~ +80°C, 10 ~ 95% RH										
ENVIRONMENT	STORAGE TEMP., HUMIDITY											
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 60°C)									
	VIBRATION	-			72min. each ald	•	S					
	SAFETY STANDARDS Note.7	UL8750, CSA	C22.2 No. 250	0.0-13, IP65 or	IP67 approved	l						
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75	KVAC I/P-F	G:2KVAC O	/P-FG:1.5KVA	C						
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-F	G, O/P-FG:10	00M Ohms / 50	00VDC/25°C/	70% RH						
LIVIO	EMC EMISSION	Compliance to	o EN55015, EN	N61000-3-2 CI	ass C (≧60%	load); EN6100	00-3-3, FCC pa	irt 15 class B				
	EMC IMMUNITY	Compliance to EN55015, EN61000-3-2 Class C (≧60% load); EN61000-3-3, FCC part 15 class B Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, light industry level (surge 4KV), criteria A										
	MTBF	208K hrs min.	. MIL-HDBK	-217F (25°C)								
OTHERS	DIMENSION	189*61.5*36.	8mm (L*W*H)									
	PACKING	0.77Kg; 18pcs	s/14.9Kg/0.890	CUFT								
NOTE	All parameters NOT specia Ripple & noise are measure Tolerance: includes set up Please refer to "DRIVING N Derating may be needed ur A Type only. Safety and EMC design ref The power sumply is considered.	ed at 20MHz of tolerance, line METHODS OF Inder low input er to EN60598	of bandwidth by regulation and LED MODUL voltages. Plea 3-1, CNS15233	y using a 12" to d load regulation. E". ase check the 3, GB7000.1.	twisted pair-wing on. static characte	re terminated v	with a 0.1uf &	47uf parallel c				

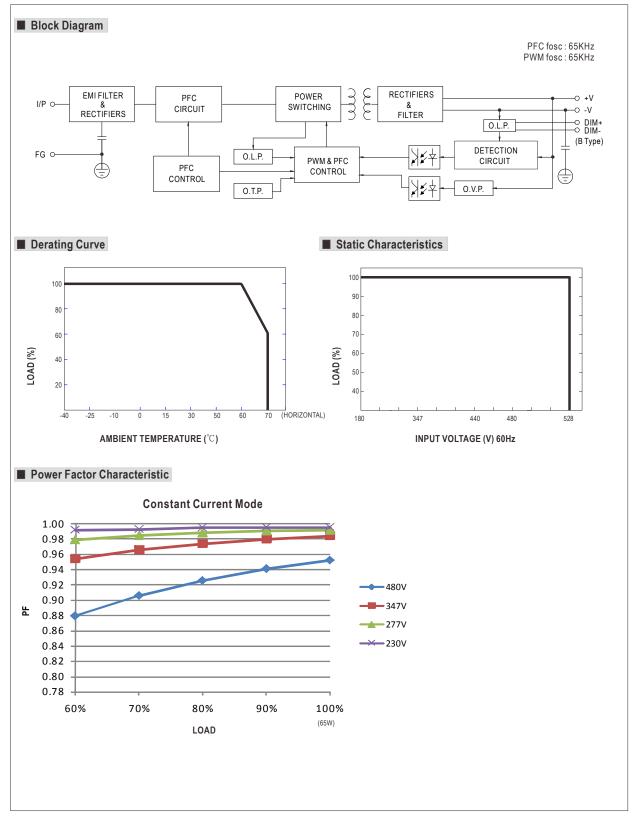
- 8. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)

 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.





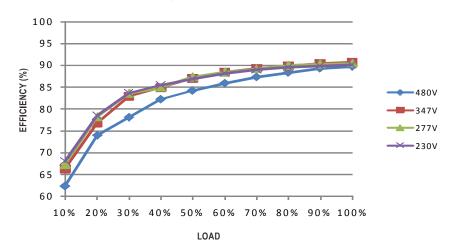






■ EFFICIENCY vs LOAD (48V Model)

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

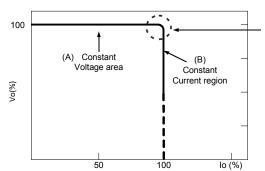


■ DRIVING METHODS OF LED MODULE

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.







- lepha 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-.
- imes Please DO NOT connect "DIM-" to "-V".
- $\ensuremath{\,\times\,} \ensuremath{\,\text{Reference}}\xspace \, \text{resistance} \, \text{value} \, \text{for output current adjustment (Typical)}$

Resistance	Single driver	Short	10K Ω	20 K Ω	30K Ω	$40 \mathrm{K}\Omega$	50K Ω	$60 \mathrm{K}\Omega$	70K Ω	80KΩ	90KΩ	100K Ω	OPEN
value	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	70KΩ/N	80K Ω/N	90K Ω/N	100K Ω /N	
Percentage	e of rated current	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

3% 0 ~ 10V dimming function for output current adjustment (Typical)

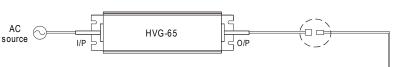
Dimming value	0V	1V	2V	3V	4V	5V	6V	7V	8V	9V	10 V	OPEN
Percentage of rated current	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

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 Configura	ition (Female)
M12	·	&
IVI I Z	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
IVIID	2-PIN
	12A/PIN
Order No.	M15-02
Suitable Current	12A max.

