



■ Features :

- Wide input range 180~528VAC
- Built-in active PFC function
- High efficiency up to 91.5%
- 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
- 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)





HVG-150-12A

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.

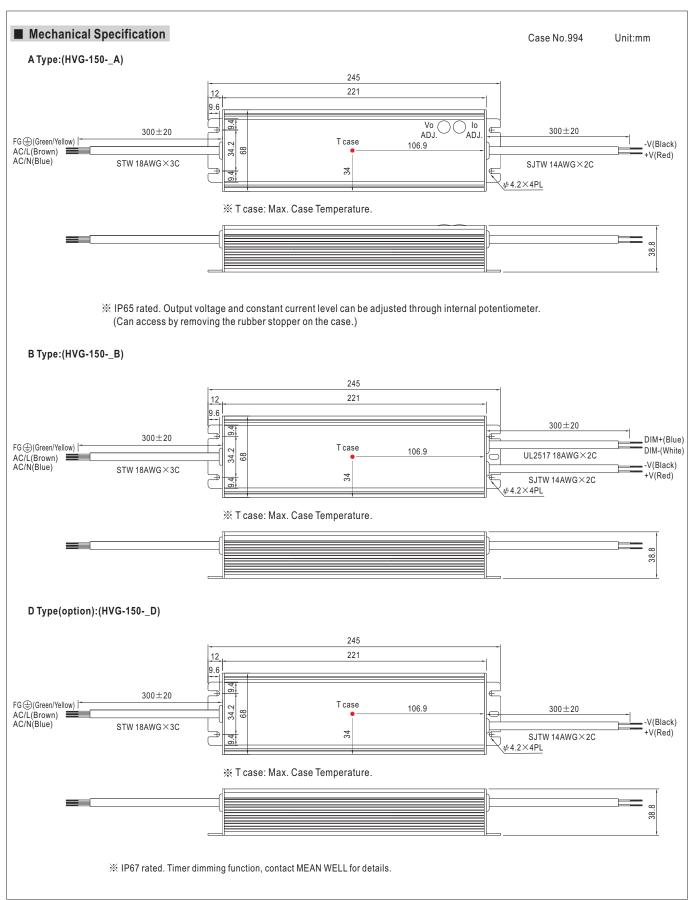
SPECIFICATION

MODEL			HVG-150-12	HVG-150-15	HVG-150-20	HVG-150-24	HVG-150-30	HVG-150-36	HVG-150-42	HVG-150-48	HVG-150-54		
	DC VOLTAGE		12V	15V	20V	24V	30V	36V	42V	48V	54V		
	CONSTANT CURRENT	REGION Note.4	7.2~12V	8.25~15V	11~20V	13.2~24V	16.5~30V	19.8~36V	23.1~42V	26.4~48V	29.7~54V		
	RATED CURRENT		10A	10A	7.5A	6.25A	5A	4.17A	3.58A	3.13A	2.78A		
	RATED POWER		120W	150W	150W	150W	150W	150.12W	150.36W	150.24W	150.12W		
	RIPPLE & NOISE (max.) Note.2		150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p		
	VOLTAGE ADJ. R	ANGE Note.6	10.8 ~ 13.5V	13.5 ~ 17V	17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	38 ~ 46V	43 ~ 53V	49 ~ 58V		
OUTPUT			Can be adjust	ed by internal	potentiometer	A type only	<u>'</u>			'			
	CURRENT ADJ. R	ANGE	6 ~ 10A	5.5 ~ 10A	4.13 ~ 7.5A	3.44 ~ 6.25A	2.75 ~ 5A	2.29 ~ 4.17A	1.97 ~ 3.58A	1.72 ~ 3.13A	1.53 ~ 2.78		
	VOLTAGE TOLERA	ANCE Note.3	±2.5%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%		
	LINE REGULATIO	N	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	LOAD REGULATION	ON	±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	SETUP, RISE TIMI	Ē	500ms, 80ms /:	230Vac 400ms	,80ms/347VAC/	480VAC at full lo	oad ; B type 500	ms, 280ms/230\	/ac 500ms,280i	ms/347VAC/480	Vac at 95% Io		
	HOLD UP TIME (T	yp.)	18ms at full lo	ad 480VAC	/ 347VAC				·				
	VOLTAGE RANGE	Note.5	180 ~ 528VAC	254VD0	C ~ 747VDC								
	FREQUENCY RAN		47 ~ 63Hz										
	POWER FACTOR			/AC, PF≧0.97/	277VAC, PF≧0	.95/347VAC, PF	= 0.93/480VAC	at full load (Ple	ase refer to "Pov	ver Factor Chara	cteristic" curv		
				PF \geq 0.98/230VAC, PF \geq 0.97/277VAC, PF \geq 0.95/347VAC, PF \geq 0.93/480VAC at full load (Please refer to "Power Factor Characteristic" curv THD<20% when output loading \geq 50% (\geq 60% only for 12V model) at 230VAC/277VAC/347VAC input									
	TOTAL HARMONIC	DISTORTION	THD<20% when output loading ≥75% at 480VAC input										
INPUT	EFFICIENCY (Typ	.)	87%	89%	90.5%	91%	91%	91%	91%	91.5%	91.5%		
	AC CURRENT	347VAC	0.45A	0.5A			1				1		
	(Typ.)	480VAC	0.35A	0.38A									
	INRUSH CURREN		COLD START 35A(twidth=790µs measured at 50% lpeak) at 480VAC										
	LEAKAGE CURRENT		<0.75mA/480VAC										
	OVER CURRENT SHORT CIRCUIT		95~108%										
			Protection type: Constant current limiting, recovers automatically after fault condition is removed										
			Constant current limiting, recovers automatically after fault condition is removed										
PROTECTION	OVER VOLTAGE		14.4 ~ 16.8V		23 ~ 27V	28 ~ 34V	34 ~ 38V	41 ~ 46V	47 ~ 53V	54 ~ 60V	59 ~ 65V		
					o/p voltage wit		v or re-power of						
	OVER TEMPERAT	URF	Shut down o/p voltage, recovers automatically after temperature goes down										
	WORKING TEMP.	OILE	-40 ~ +70°C (Refer to "Derating Curve")										
	WORKING HUMID	ITY	20 ~ 95% RH non-condensing										
ENVIRONMENT	STORAGE TEMP.,		-40 ~ +80°C. 10 ~ 95% RH										
LITTINONIILITT	TEMP. COEFFICIE		±0.03%/°C (0~60°C)										
	VIBRATION		10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes										
		PDS Note 7	UL8750, CSA C22.2 No. 250.0-08, IP65 or IP67 approved										
	WITHSTAND VOL		I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC										
SAFETY &	ISOLATION RESIS												
EMC	EMC EMISSION	TANCE	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 (≧55% load,≧60% load only for 12V model); EN61000-3-3, FCC part 15 class E										
			Compliance to EN61000-3-2 class C (\$35% load,\$60% load only for 12v moder), EN61000-3-3, PCC part 15 class C (\$35% load,\$60% load only for 12v moder), EN61000-3-3, PCC part 15 class C (\$35% load,\$60% load only for 12v moder), EN61000-3-3, PCC part 15 class C (\$35% load,\$60% load only for 12v moder), EN61000-3-3, PCC part 15 class C (\$35% load,\$60% load only for 12v moder), EN61000-3-3, PCC part 15 class C (\$35% load,\$60% load only for 12v moder), EN61000-3-3, PCC part 15 class C (\$35% load,\$60% load only for 12v moder), EN61000-3-3, PCC part 15 class C (\$35% load,\$60% load only for 12v moder), EN61000-3-3, PCC part 15 class C (\$35% load,\$60% load only for 12v moder), EN61000-3-3, PCC part 15 class C (\$35% load,\$60% load only for 12v moder), EN61000-3-3, PCC part 15 class C (\$35% load,\$60% load only for 12v moder), EN61000-3-3, PCC part 15 class C (\$35% load,\$60% load only for 12v moder), EN61000-3-3, PCC part 15 class C (\$35% load,\$60% load only for 12v moder), EN61000-3-3, PCC part 15 class C (\$35% load,\$60% load only for 12v moder), EN61000-3-3, PCC part 15 class C (\$35% load,\$60% load,\$										
	MTBF	158.6K hrs min. MIL-HDBK-217F (25°C)											
OTHERS			245*68*38.8mm (L*W*H)										
OTHERS	DIMENSION		· · · · · · · · · · · · · · · · · · ·										
	PACKING	NOT anasi-	1.24Kg; 12pcs/15.9Kg/0.78CUFT lecially mentioned are measured at 347VAC input, rated load and 25°C of ambient temperature.										
NOTE	All parameters Ripple & noise Tolerance : inc Please refer to Derating may I A type only. Safety and EM	are measure cludes set up "DRIVING More needed ui	ed at 20MHz of tolerance, line METHODS OF Inder low input	f bandwidth b regulation an LED MODUL voltages. Plea	y using a 12" of the distribution of the distr	wisted pair-wi	re terminated	with a 0.1uf &		apacitor.			

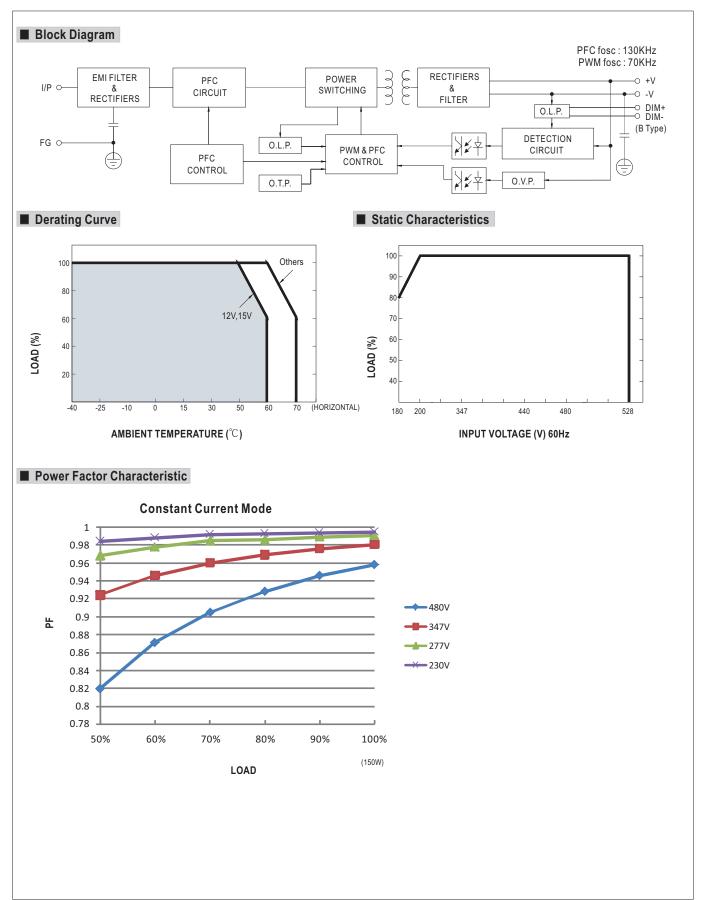
- 7. Safety and EMC design refer to EN00396-1, CNS13233, GB7000.1.

 8. The power supply 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. 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





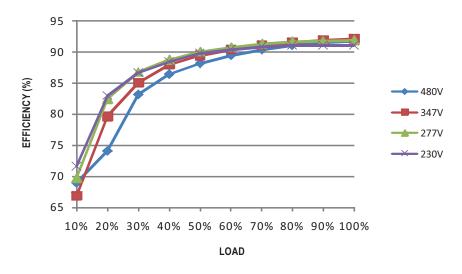






■ EFFICIENCY vs LOAD (48V Model)

HVG-150 series possess superior working efficiency that up to 91.5% can be reached in field applications.

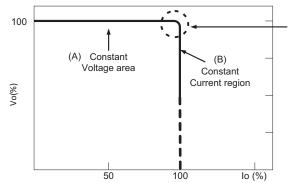


■ DRIVING METHODS OF LED MODULE

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).



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.

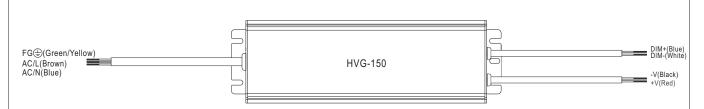
Original :Constant Current area

Original :Solid line

Typical LED power supply I-V curve



■ DIMMING OPERATION



- 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-.
- $\ensuremath{\mathbb{X}}$ Please DO NOT connect "DIM-" to "-V".
- * Reference resistance value for output current adjustment (Typical)

Resistance	Single driver	Short	10K Ω	20K Ω	30K Ω	$40 \mathrm{K}\Omega$	50K Ω	60K Ω	70K Ω	80KΩ	90ΚΩ	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	70K Ω /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%

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%

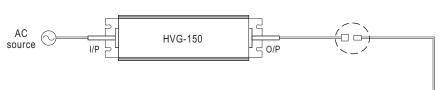
¾ 10V PWM signal for output current adjustment (Typical): Frequency range:100Hz ~ 3KHz

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

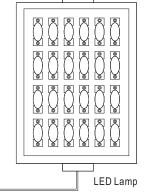
O Waterproof connector

Waterproof connector can be assembled on the output cable of HVG-150 to operate in dry/wet/damp or outdoor environment.

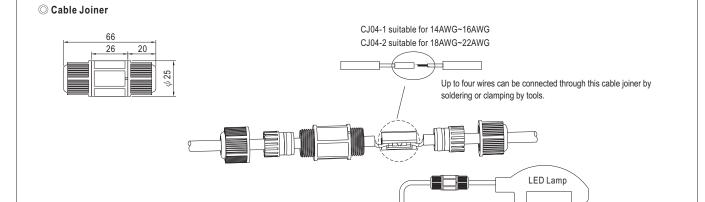


Size	Pin Configuration (Female)						
M12	000	000					
IVI I Z	4-PIN	5-PIN					
	5A/PIN	5A/PIN					
Order No.	M12-04	M12-05					
Suitable Current	10A max	10A max					

Size	Pin Configuration (Female)				
M15	00				
IVITO	2-PIN				
	12A/PIN				
Order No.	M15-02				
Suitable Current	12A max.				







O/P Wires

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

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

HVG-150

