



■ 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)

IP65 IP67 R c Nus FC

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.

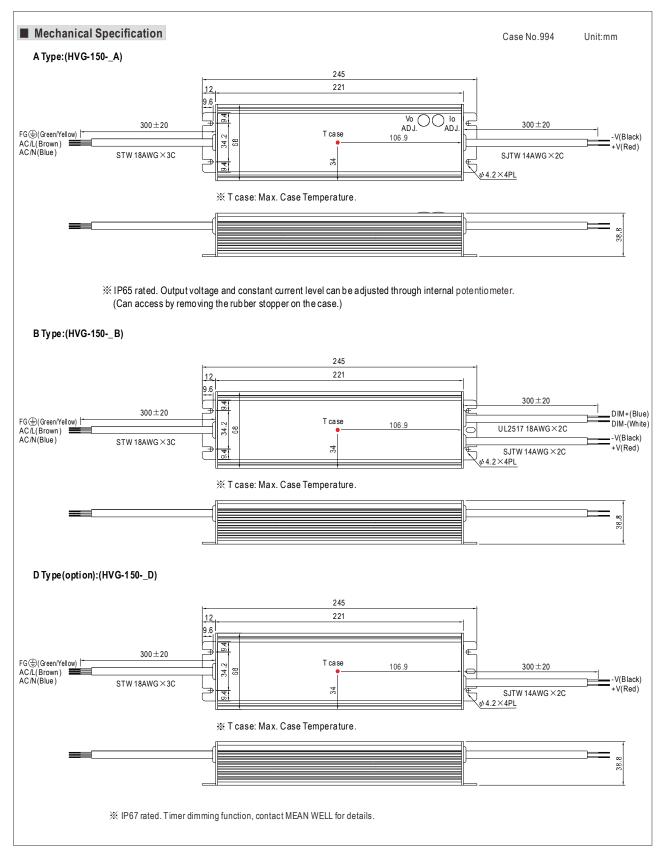
D (option): IP67 rated. Timer dimming function, contact MEAN WELL for details.

SPECIFICATION

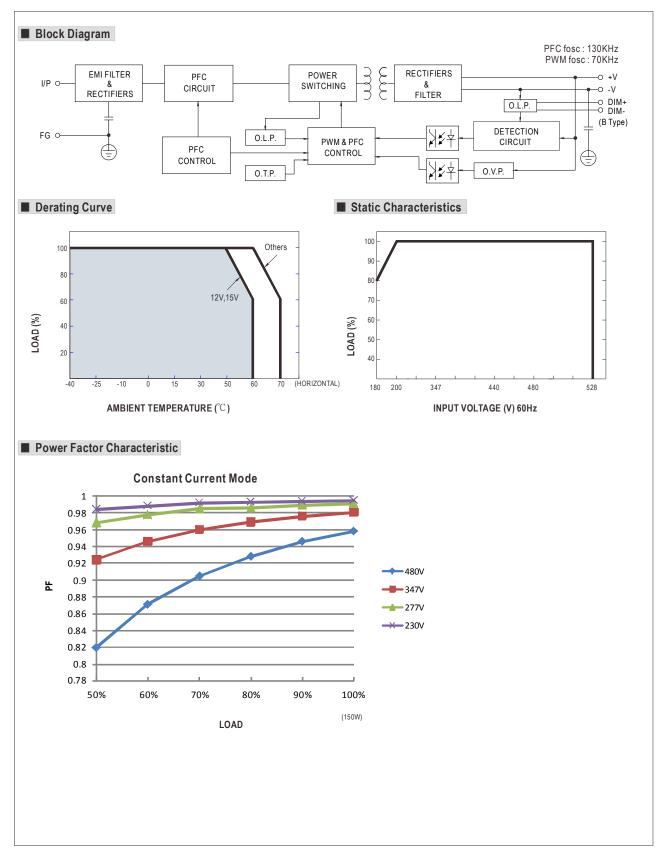
MODEL			HVG-150-12	HVG-150-15	HVG-150-20	HVG-150-24	HVG-150-30	HVG-150-36	HVG-150-42	HVG-150-48	HVG-150-54			
	DC VOLTAGE		12V	15V	20V	24V	30V	36V	42V	48V	54V			
	CONSTANT CURRENT	7.2~12V	8.25~15V	11~20V	13.2~24V	16.5~30V	19.8~36V	23.1~42V	26.4~48V	29.7~54V				
	RATED CURRENT		10A	10A	7.5A	6.25A	5A	4.17A	3.58A	3.13A	2.78A			
	RATED POWER		120W	150W	150W	150W	150W	150.12W	150.36W	150.24W	150.12W			
	RIPPLE & NOISE (I	max.) Note.2		150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p			
	VOLTAGE ADJ. RANGE Note.6				17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	38 ~ 46V	43 ~ 53V	49 ~ 58V			
OUTPUT	OUTPUT CURRENT ADJ. RANGE				ootentiometer A									
			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 ~ 2.78A			
			±2.5%	±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		±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%			
	SETUP, RISE TIME				480VAC / 347\				480VAC / 347					
	HOLD UP TIME (Ty		18ms at full lo			nto, b type t	50001113, 2001111	3 41 30 /0 1044	400 1/10 / 04/	VIIO				
	VOLTAGE RANGE		180 ~ 528VAC		C ~ 747VDC									
	FREQUENCY RAN		47 ~ 63Hz	234100	, - 141 100									
		-		/AC DE > 0.07/	077\/A C DE > 0	0.E/2.47\/A.C. D.E.	>0 03/400/40	at full load /Dlac	aa safas ta "Dau	or Footor Chara	atariatia" aumo			
	POWER FACTOR (Typ.)			277VAC, PF≧0						cteristic curve			
	TOTAL HARMONIC I	DISTORTION		THD<20% when output loading≧50% (≧60% only for 12V model) at 230VAC/277VAC/347VAC input THD<20% when output loading≧75% at 480VAC input										
INDUT	EFFICIENCY (Torr	`		· ·			040/	040/	040/	04.50/	04.50/			
INPUT	EFFICIENCY (Typ.	,	87%	89%	90.5%	91%	91%	91%	91%	91.5%	91.5%			
	AC CURRENT	347VAC	0.45A	0.5A										
	(Typ.)	480VAC	0.35A											
	INRUSH CURREN		COLD START 35A(twidth=790μs measured at 50% lpeak) at 480VAC											
	LEAKAGE CURRE	NT	<0.75mA/480VAC											
	OVER CURRENT		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	SHORT CIRCUIT													
111012011011	OVER VOLTAGE		14.4 ~ 16.8V 18 ~ 21V 23 ~ 27V 28 ~ 34V 34 ~ 38V 41 ~ 46V 47 ~ 53V 54 ~ 60V 59 ~ 65V											
			Protection type: Shut down o/p voltage with auto-recovery or re-power on to recovery											
OVER TEMPERATURE			Shut down o/p voltage, recovers automatically after temperature goes down											
	WORKING TEMP.		-40 ~ +70 °C (Refer to "Derating Curve")											
	WORKING HUMIDITY		20 ~ 95% RH non-condensing											
ENVIRONMENT	STORAGE TEMP.,	HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH											
	TEMP. COEFFICIE	NT	±0.03%/°C (0~60°C)											
	VIBRATION		10 ~ 500Hz, 5	G 12min./1cyc	le, period for 7	'2min. each ald	ong X, Y, Z axe	S						
	SAFETY STANDAR	RDS Note.7	UL8750, CSA	C22.2 No. 250).0-08, IP65 or	IP67 approved								
	WITHSTAND VOLT	AGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC											
SAFETY &	ISOLATION RESIS	TANCE	I/P-O/P. I/P-F	G. O/P-FG:10	00M Ohms / 50	0VDC / 25°C /	70% RH							
EMC	EMC EMISSION							ad only for 12V	model) : EN61	000-3-3. FCC	part 15 class B			
	EMC IMMUNITY		Compliance to EN55015, EN61000-3-2 Class C (≥55% load,≥60% load only for 12V model); EN61000-3-3, FCC part 15 cl Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, light industry level (surge 4KV), criteria A											
	MTBF		158.6K hrs min. MIL-HDBK-217F (25°C)											
OTHERS	DIMENSION		245*68*38.8mm (L*W*H)											
	PACKING		1.24Kg; 12pcs/15.9Kg/0.78CUFT											
NOTE	1. All parameters 2. Ripple & noise 3. Tolerance : incl 4. Please refer to 5. Derating may b 6. A type only. 7. Safety and EM 8. The power sup	are measure ludes set up "DRIVING No e needed ur C design refi ply is consid	lly mentioned a ed at 20MHz o tolerance, line METHODS OF Inder low input er to EN60598 lered as a com	are measured f bandwidth by regulation an LED MODUL voltages. Plea -1, CNS15233 ponent that w	at 347VAC inpy using a 12" to do load regulation. E". see check the seeds, GB7000.1.	wisted pair-wir on. static characte in combinatio	re terminated versitics for more now with final equals to the terminal equals to the terminated version to the	vith a 0.1uf & 4 e details. uipment. Since	47uf parallel ca		ffected by the			

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.
 Refer to warranty statement.





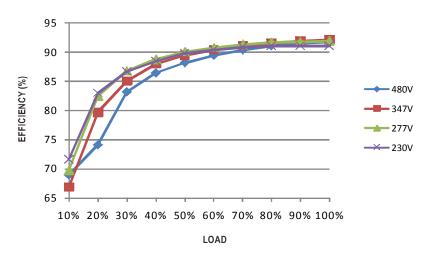






■ EFFICIENCY vs LOAD (48V Model)

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

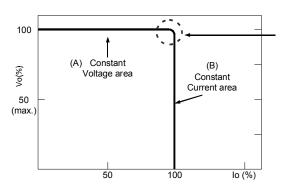


■ DRIVING METHODS OF LED MODULE

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).

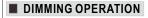


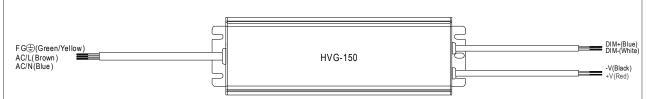
Typical LED power supply I-V curve

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.







- ※ Please DO NOT connect "DIM-" to "-V".
- ※ Reference resistance value for output current adjustment (Typical)

Resistance	Single driver	Short	10Κ Ω	20ΚΩ	30K Ω	40K Ω	50 Κ Ω	60 ΚΩ	70 ΚΩ	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%

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

Dimming value	0 V	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%

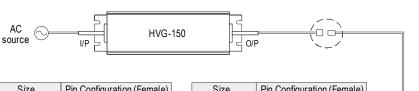
¾ 10V PWM signal for output current adjustment (Typical): Frequency range :100 Hz ~ 3KHz

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

Waterpro of 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	00	%				
IVIIZ	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
IVI IO	2-PIN
	12 A/PIN
Order No.	M15-02
Suitable Current	12A max.

