



■ 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 Sus 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.

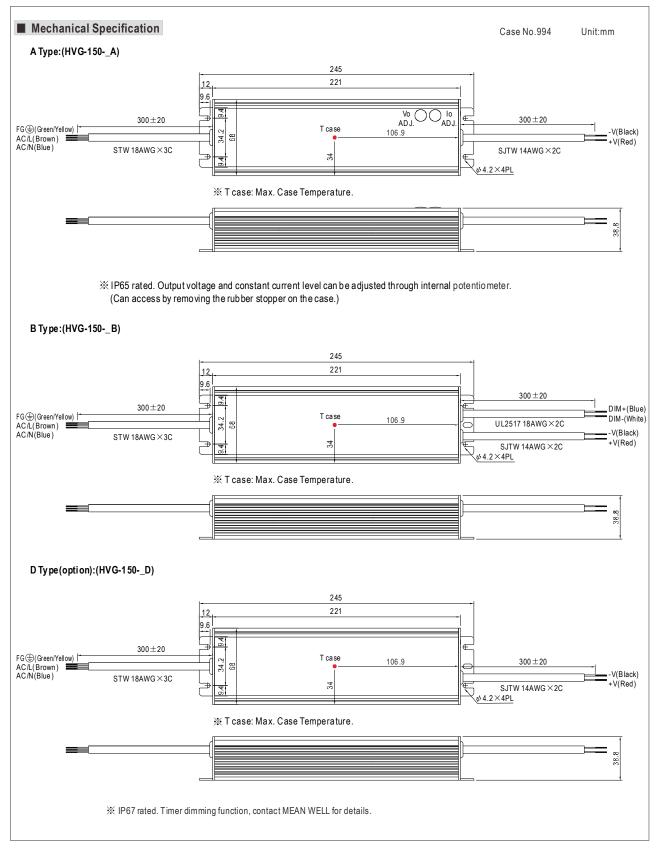
D (option): IP67 rated. Timer dimming function, contact MEAN WELL for details.

SPECIFICATION

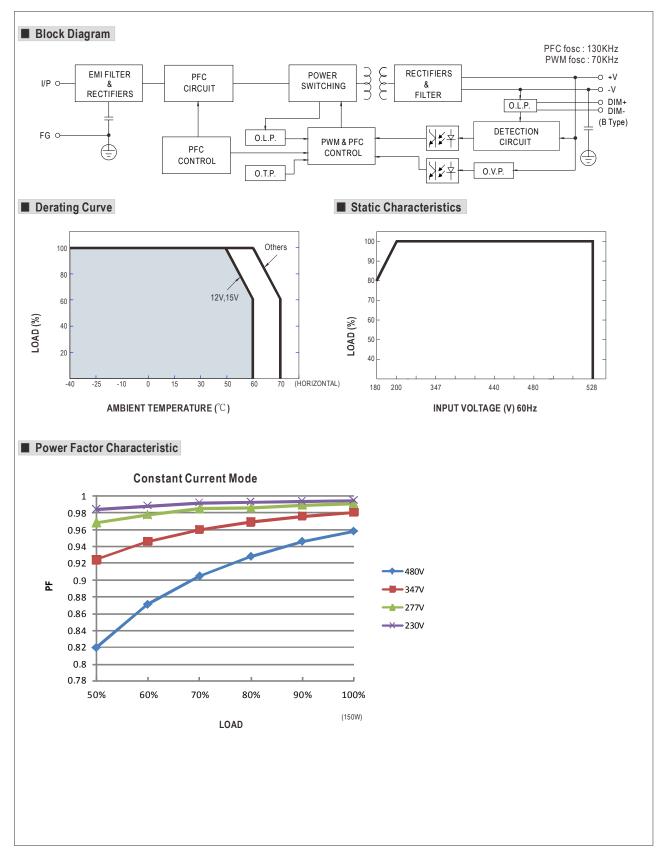
MODEL			HVG-150-12	HVG-150-15	HVG-150-20	HVG-150-24	HVG-150-30	HVG-150-36	HVG-150-42	HVG-150-48	HVG-150-54		
	DC VOLTAGE		12V	15V	20V	24V	30V	36V	42V	48V	54V		
	CONSTANT CURRENT	REGION Note.4	7.2~12V	8.25~15V	11~20V	13.2~24V	16.5~30V	19.8~36V	23.1~42V	26.4~48V	29.7~54V		
	RATED CURRENT		10A	10A	7.5A	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. RANGE 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	'						
	CURRENT ADJ. RANGE		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 TOLERANCE 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 TIME		2700ms, 80m	s at full load	480VAC / 347	VAC ; B type	3000ms, 280m	s at 95% load	480VAC / 347	VAC			
	HOLD UP TIME (Typ.)		18ms at full load 480VAC / 347VAC										
	VOLTAGE RANGE												
	FREQUENCY RANGE		47 ~ 63Hz										
	POWER FACTOR (Typ.)		PF≧ 0.98/230VAC, PF≧ 0.97/277VAC, PF≧ 0.95/347VAC, PF≧ 0.93/480VAC at full load (Please refer to "Power Factor Characteristic" curve										
	TOTAL HARMONIC DISTORTION EFFICIENCY (Typ.)		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										
INPUT			87%	89%	90.5%	91%	91%	91%	91%	91.5%	91.5%		
	AC CURRENT	347VAC	0.45A	0.5A	00.070	0170	1	0.70					
	(Typ.) 480VAC		0.35A										
	INRUSH CURRENT (Typ.)		COLD START 35A(twidth=790 \(\mu \) s measured at 50% lpeak) at 480VAC										
	LEAKAGE CURRENT		<0.75mA / 480VAC										
	ELYHOTOL GOTHLENT		95 ~ 108%										
	OVER CURRENT		Protection type: Constant current limiting, recovers automatically after fault condition is removed										
	SHORT CIRCUIT		Constant current limiting, recovers automatically after fault condition is removed										
PROTECTION	SHORT CIRCUIT		14.4 ~ 16.8V		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										
	OVED TEMPEDATURE		Shut down o/p voltage, recovers automatically after temperature goes down										
	OVER TEMPERATURE		-40 ~ +70°C (Refer to "Derating Curve")										
	WORKING TEMP.	ITV	20 ~ 95% RH non-condensing										
ENVIRONMENT	STORAGE TEMP.,		-40 ~ +80 °C, 10 ~ 95% RH										
ENVIRONMENT	TEMP. COEFFICIE												
		IN I	±0.03%/°C (0 ~ 60°C)										
	VIBRATION		10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes										
	SAFETY STANDARDS Note.7												
SAFETY &	WITHSTAND VOL		I/P-0/P:3.75KVAC I/P-FG:2KVAC 0/P-FG:0.5KVAC										
EMC	ISOLATION RESIS	TANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH										
	EMC EMISSION		Compliance to EN55015, EN61000-3-2 Class C (≥55% load, ≥60% load only for 12V model); EN61000-3-3, FCC part 15 class E										
	EMC IMMUNITY		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*38.8n		=								
	PACKING		0, 1				0						
NOTE	PACKING 1.24Kg; 12pcs/15.9Kg/0.78CUFT 1. All parameters NOT specially mentioned are measured at 347VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. Please refer to "DRIVING METHODS OF LED MODULE". 5. Derating may be needed under low input voltages. Please check the static characteristics for more details. 6. A type only. 7. Safety and EMC design refer to EN60598-1, CNS15233, 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												

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.





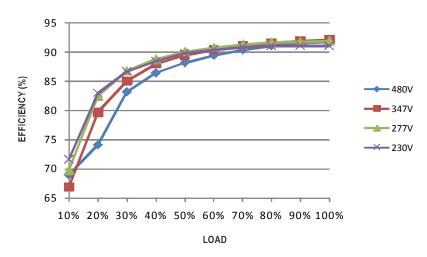






■ EFFICIENCY vs LOAD (48V Model)

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

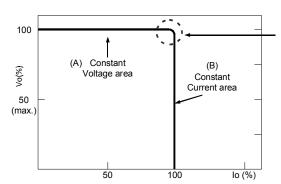


■ DRIVING METHODS OF LED MODULE

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).

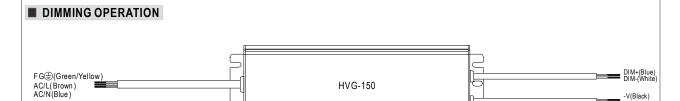


Typical LED power supply I-V curve

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.





- 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 ~ 10VPWM signal between DIM+ and DIM-.
- ※ Please DO NOT connect "DIM-" to "-V".
- ※ Reference resistance value for output current adjustment (Typical)

Resistance value	Single driver	Short	10K Ω	20ΚΩ	30K Ω	40K Ω	50 Κ Ω	60 ΚΩ	70 ΚΩ	80 KΩ	90ΚΩ	100K Ω	OPEN
	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 of rated current		0%	10%	20%	30%	40%	50%	60 %	70%	80%	90%	100%	95%~108%

¾ 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 :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

Waterpro of connector

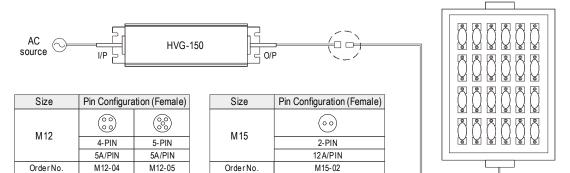
Suitable Current

10A max.

10A max

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

Suitable Current



12A max.

LED Lamp



