



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)





TAIWAN

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.

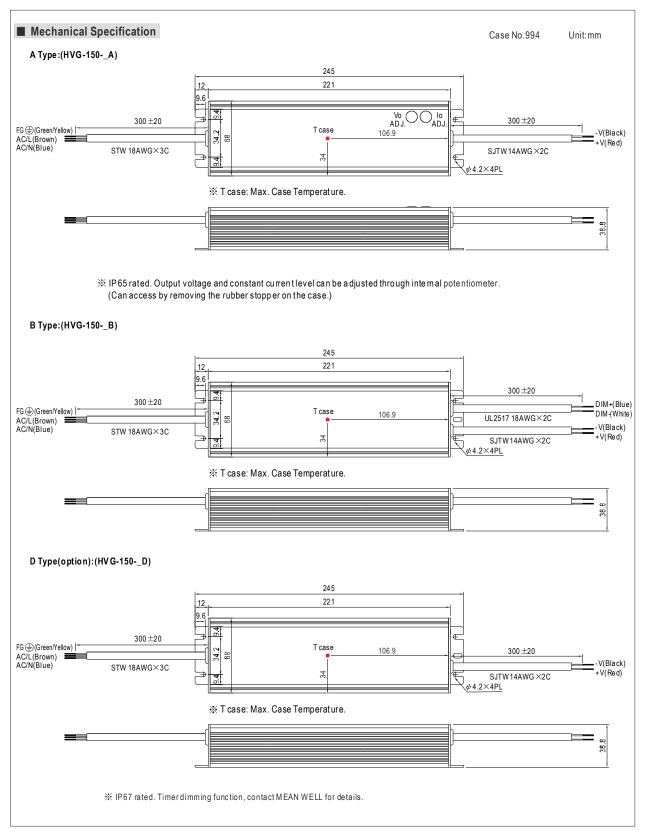
D (option): IP67 rated. Timer dimming function, contact MEAN WELL for details.

SPECIFICATION

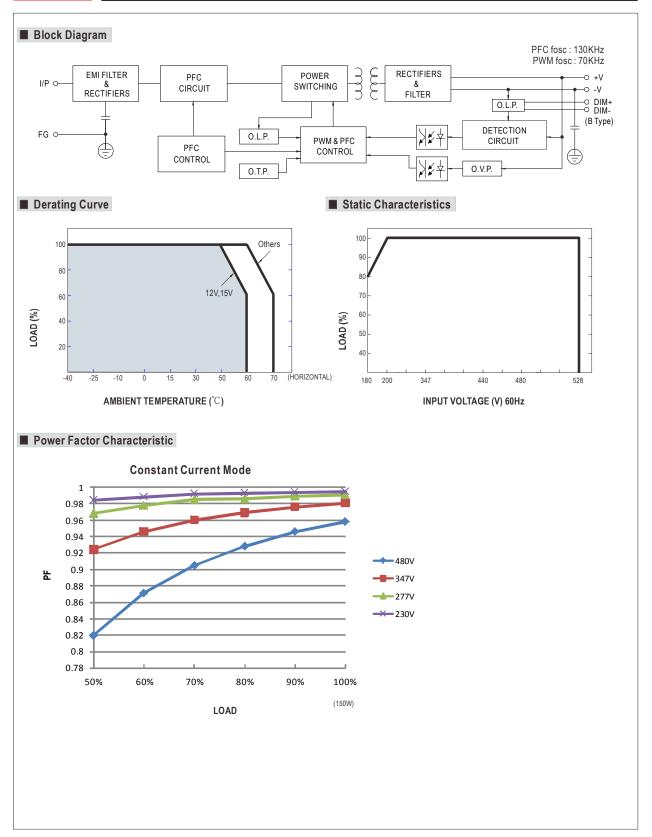
MODEL			HVG-150-12	HVG-150-15	HVG-150-20	HVG-150-24	HVG-150-30	HVG-150-36	HVG-150-42	HVG-150-48	HVG-150-54		
DC VOLTAGE		12V	15V	20V	24V	30V	36V	42V	48V	54V			
	CONSTANT CURRENT	REGION Note.4	7.2~12V	8.25~15V	11~20V	13.2~24V	16.5~30V	19.8~36V	23.1~42V	26.4~48V	29.7~54V		
			10A	10A	7.5A	6.25A	5A	4.17A	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		
, ,				17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	38 ~ 46V	43 ~ 53V	49 ~ 58V			
OUTPUT			Can be adjusted 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 1.53~2.78A										
			±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		500ms, 80ms /2	230Vac 400ms,	80ms/347VAC/4	480VAC at full lo	ad; B type 500r	ns, 280ms/230V	ac 500ms,280r	ns/347VAC/480	Vac at 95% loa		
	HOLD UP TIME (Typ.)			ad 480VAC			, ,,	,	,				
, , , ,		180 ~ 528VAC	254VDC	C~747VDC									
	FREQUENCY RAN		47 ~ 63Hz										
	POWER FACTOR ((Tvp.)	PF≧0.98/230\	/AC. PF≧0.97/2	277VAC. PF≧0	.95/347VAC. PF	≥0.93/480VAC	at full load (Plea	ase refer to "Pov	ver Factor Chara	cteristic" curv		
				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 THD<20% when output loading≥50% (≥60% only for 12V model) at 230VAC/277VAC/347VAC input									
	TOTAL HARMONIC I	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									
	(Typ.)	480VAC	0.35A										
	INRUSH CURRENT		COLD START 35A(twidth=790µs measured at 50% lpeak) at 480VAC										
	LEAKAGE CURRE		<0.75mA / 480VAC										
	ELANAGE OFFICER			95~108%									
	OVER CURRENT		Protection type: Constant current limiting, recovers automatically after fault condition is removed										
	SHORT CIRCUIT OVER VOLTAGE		Constant current limiting, recovers automatically after fault condition is removed										
PROTECTION			14.4 ~ 16.8V		23 ~ 27V	28 ~ 34V	34 ~ 38V	41 ~ 46V	47 ~ 53V	54 ~ 60V	59 ~ 65V		
	OVER TEMPERAT	URF	Protection type: Shut down o/p voltage with auto-recovery or re-power on to recovery Shut down o/p voltage, recovers automatically after temperature goes down										
	WORKING TEMP.	OILL	-40 ~ +70°C (Refer to "Derating Curve")										
	WORKING HUMID	ITV	20 ~ 95% RH non-condensing										
ENVIRONMENT	STORAGE TEMP.,		-40 ~ +80°C, 10 ~ 95% RH										
LITTINONIENT	TEMP. COEFFICIE		±0.03%°C (0~60°C)										
	VIBRATION		10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes										
	SAFETY STANDAR	RDS Note.7											
	WITHSTAND VOLT		I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC										
SAFETY &	ISOLATION RESIS												
EMC	EMC EMISSION	IANCE	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 B										
			Compliance to EN61000-3-2. Class € (≤55% load,≤50% load only for 12V model); 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		158.6K hrs mi		3K-217F (25°C)		iliuusii y level (surge 4KV), C	IIIEIIaA				
OTHERS	DIMENSION		245*68*38.8n		ok-217F (23 €)								
OTHERS				s/15.9Kg/0.780	THET								
NOTE	PACKING 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 complete instal 9. Refer to warrar	are measure ludes set up "DRIVING No be needed ur C design refulply is consid- lation, the fin	lly mentioned a ed at 20MHz o tolerance, line METHODS OF nder low input er to EN60598 ered as a com aal equipment i	are measured f bandwidth by regulation an LED MODUL voltages. Plea -1, CNS15233 ponent that w	at 347VAC inp y using a 12" t d load regulating E". se check the s 3, GB7000.1. ill be operated	wisted pair-wir on. static character in combination	e terminated vristics for more	vith a 0.1uf & 4 details.	47uf parallel ca		ffected by th		

- never to warranty statement.To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently





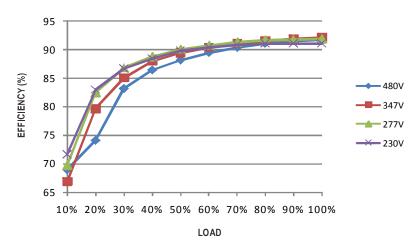






■ EFFICIENCY vs LOAD (48V Model)

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

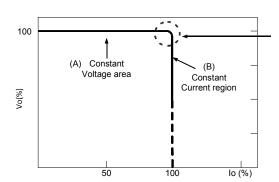


■ DRIVING METHODS OF LED MODULE

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.



AC/L(Brown) AC/N(Blue)



HVG-150



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

Resistance	Single driver	Short	10K Ω	20ΚΩ	30K Ω	40K Ω	50K Ω	60K Ω	70K Ω	80K Ω	90ΚΩ	100K Ω	OPEN
value	Multiple drivers (N=driverquantity forsynchronized dimming operation)	Short	10KΩ/N	20KΩ/N	30KΩ/N	40KΩ/N	50KΩ/N	60KΩ/N	70KΩ/N	80KΩ/N	90KΩ/N	100K Ω/N	
Percentage	e of rated current	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

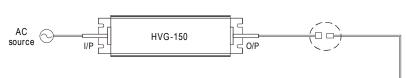
Dimming value	0V	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Percentage of rated current	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

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

Waterproof connector

Wa terproof 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	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					
IVI 15	2-PIN					
	12A/PIN					
Order No.	M15-02					
Suitable Current	12A max.					

