



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.8)

IP65 IP67 🕝 - 👊 s F©

HVG-150-12A

A: IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.

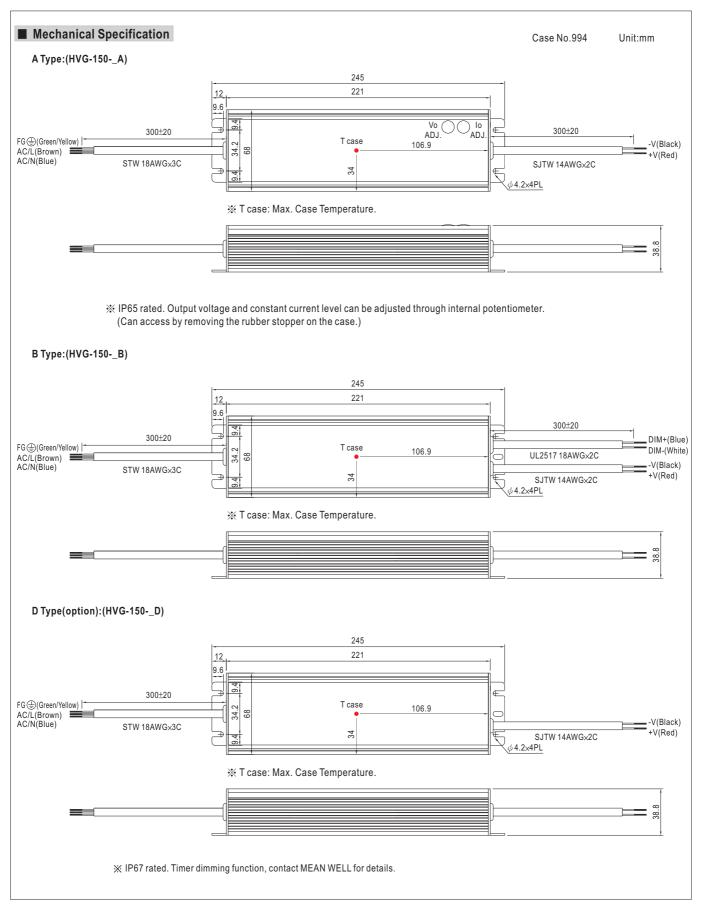
 $B: IP67\ rated.\ Constant\ current\ level\ adjustable\ through\ output\ cable\ with\ 0\sim10Vdc\ or\ 10V\ PWM\ signal\ or\ resistance.$

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

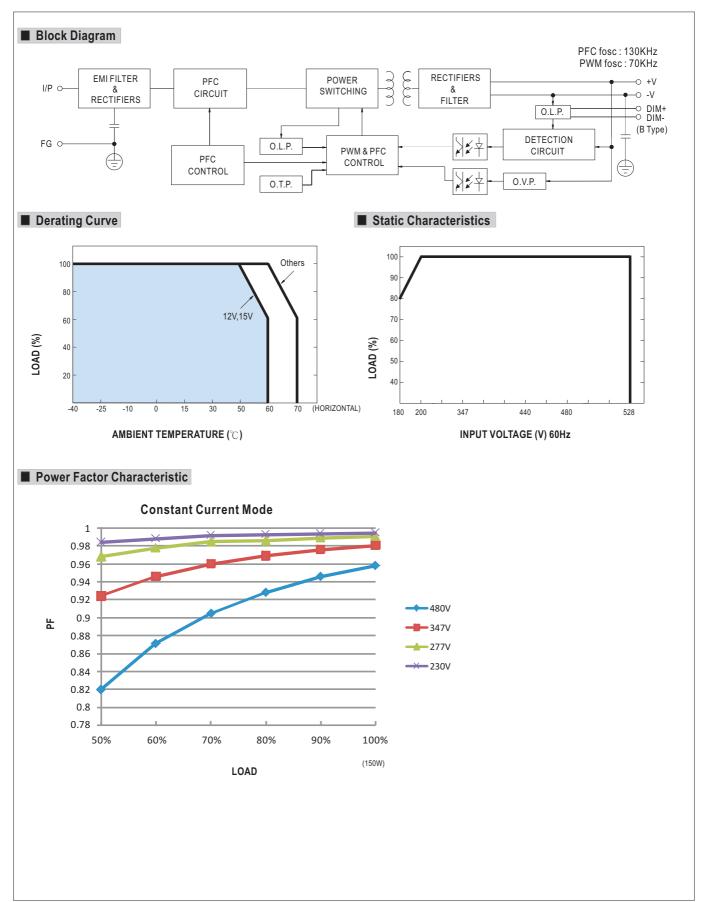
SPECIFICATION

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		
	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.5		10.8 ~ 13.5V	13.5 ~ 17V	17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	38 ~ 46V	43 ~ 53V	49 ~ 58V		
ОИТРИТ	CURRENTARIA	ANCE	Can be adjusted by internal potentiometer A type only										
OUTPUT	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		
	LINE REGULATION		±2.5%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%		
			±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
			±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	SETUP, RISE TIME		2700ms, 80ms	s at full load	480VAC / 347\	/AC; B type:	3000ms, 280ms	s at 95% load	480VAC / 347	VAC			
	HOLD UP TIME (Ty	/p.)	18ms at full lo	ad 480VAC	347VAC								
	VOLTAGE RANGE	Note.4	180 ~ 528VAC	254VDC	~ 747VDC								
	FREQUENCY RAN	IGE	47 ~ 63Hz										
	POWER FACTOR ((Тур.)	PF≧0.98/230\	/AC, PF ≥ 0.97/2	277VAC, PF ≥ 0	.95/347VAC, PF	≥0.93/480VAC	at full load (Plea	se refer to "Pow	er Factor Chara	cteristic" curve		
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	0.38A									
	INRUSH CURRENT	Т (Тур.)	COLD START 35A(twidth=790 μ s measured at 50% peak) at 480VAC										
	LEAKAGE CURRE	NT	<0.75mA / 48	0VAC									
	OVER CURRENT		95 ~ 108%										
	OVER OURRENT		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	OVEDVOLTACE		14.4 ~ 16.8V	18 ~ 21V	23 ~ 27V	28 ~ 34V	34 ~ 38V	41 ~ 46V	47 ~ 53V	54 ~ 60V	59 ~ 65V		
	OVER VOLTAGE		Protection type: Shut down o/p voltage, re-power on to recovery										
	OVER TEMPERAT	IIDE	100°C ±10°C (RTH2)										
	OVER TEMPERAT	UKE	Protection type: Shut down o/p voltage with auto-recovery or re-power on to recovery										
	WORKING TEMP.		-40 ~ +70°C (Refer to "Derating Curve")										
	WORKING HUMIDI	ITY	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, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes										
	SAFETY STANDAR	RDS Note.6	UL8750, CSA C22.2 No. 250.0-08, IP65 or IP67 approved										
SAFETY &	WITHSTAND VOLT	AGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC										
	ISOLATION RESISTANCE		I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH										
EMC	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	S DIMENSION		245*68*38.8mm (L*W*H)										
	PACKING	1.24Kg; 12pcs/15.9Kg/0.78CUFT											
NOTE	All parameters Ripple & noise Tolerance: incl Derating may b A type only. Safety and EM The power sup, complete install Refer to warrar	are measure ludes set up be needed ui C design ref ply is consid lation, the fir	ed at 20MHz o tolerance, line nder low input er to EN60598 ered as a com nal equipment i	f bandwidth by regulation and voltages. Plead i-1, CNS15233 uponent that w	y using a 12" to describe the state of the s	wisted pair-wiron. static characte in combinatio	re terminated v ristics for more n with final equ	vith a 0.1uf & 4 details.	47uf parallel ca		ffected by the		





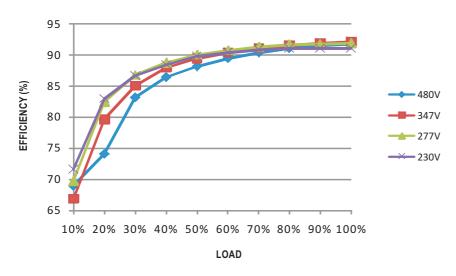






■ EFFICIENCY vs LOAD (48V Model)

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

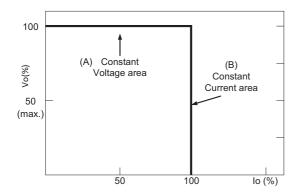


■ DRIVING METHODS OF LED MODULE

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.

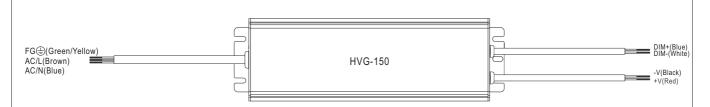
Mean Well's LED power supply with CV+ CC characteristic can be operated at both CV mode (with LED driver, at area (A) and CC mode (direct drive, at area (B).



Typical LED power supply I-V curve



■ DIMMING OPERATION



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

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

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

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%

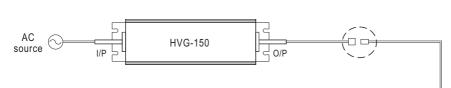
* 10V PWM signal for output current adjustment (Typical): Frequency range:100Hz ~ 3KHz

Duty value	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

■ WATERPROOF CONNECTION

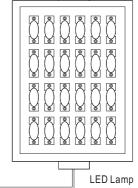
Waterproof connector

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



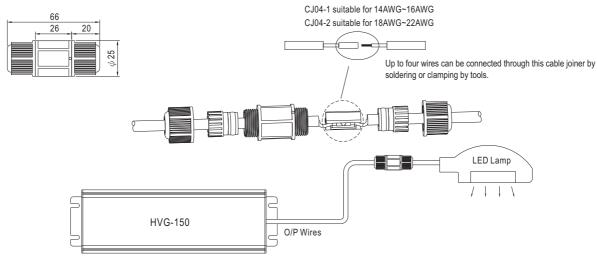
Size	Pin Configura	tion (Female)		
M12	00	000		
IVI I Z	4-PIN	5-PIN		
	5A/PIN	5A/PIN		
Order No.	M12-04	M12-05		
Suitable Current	10A max.	10A max.		

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









Junction Box(Option)

