



■ 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 R c Sus FC

HVG-150-12A

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

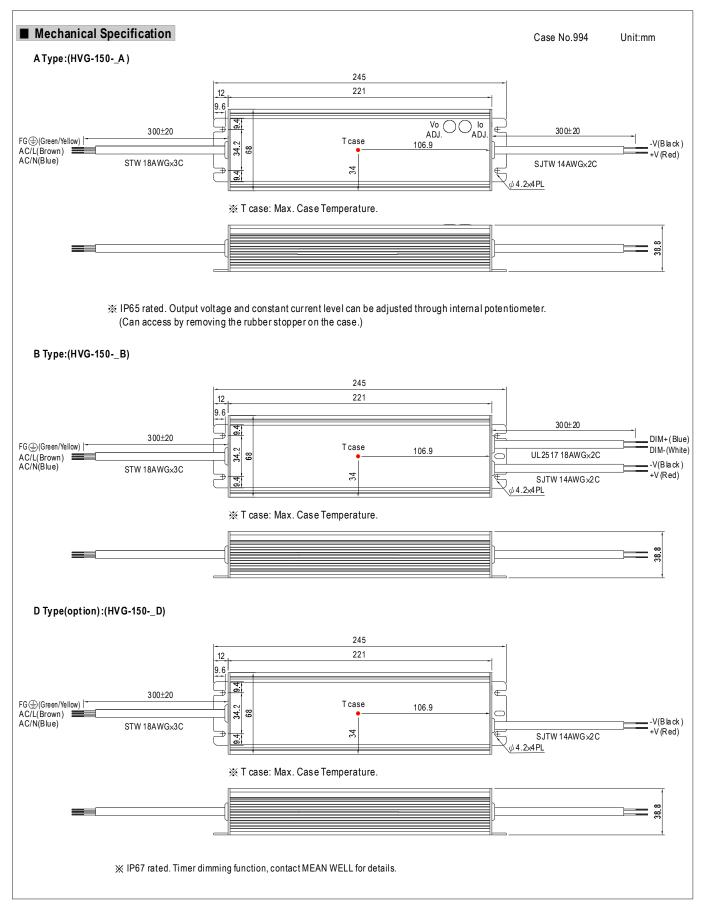
B: IP67 rated. Constant current level adjustable through output cable with $0\sim10 \text{Vdc}$ or 10V PWM signal or resistance.

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

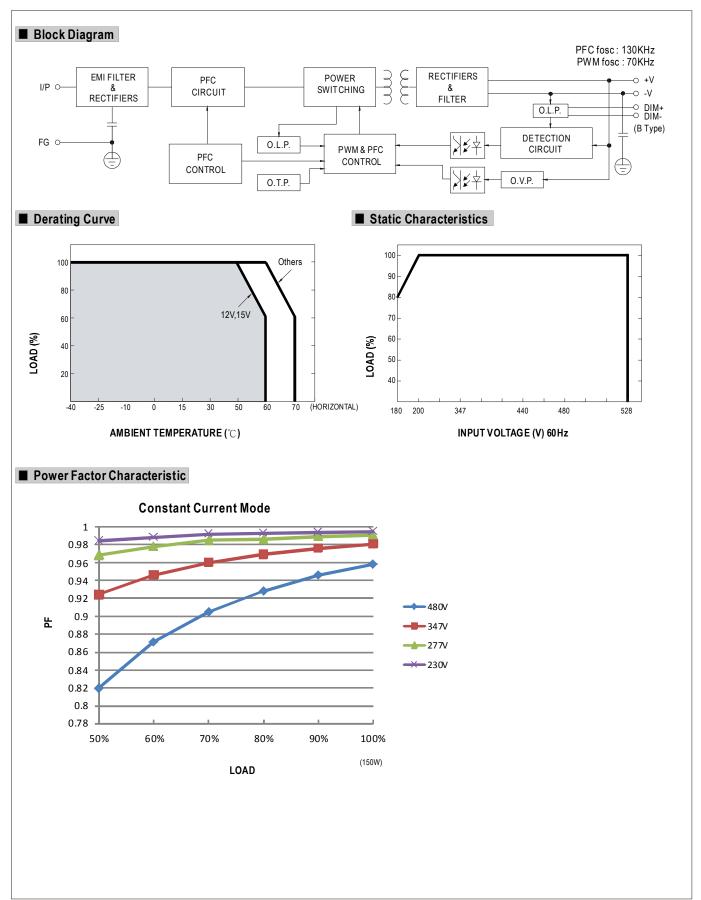
SPECIFICATION

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	20 V	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			
OUTDUT	OUDDENT AD L D	41105	Can be adjusted by internal potentiometer A type only											
OUTPUT	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 ~ 2.78A			
	VOLTAGE TOLERANCE Note.3		±2.5%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%			
	LINE REGULATION LOAD REGULATION		±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 3	3000ms, 280m	s at 95% load	480VAC / 347	'VAC				
	HOLD UP TIME (T)	/p.)	18ms at full lo	ad 480VAC	/ 347VAC									
	VOLTAGE RANGE	Note.4	180 ~ 528VAC	254VDC	C~747VDC									
	FREQUENCY RAN	IGE	47 ~ 63Hz											
	POWER FACTOR	(Тур.)	PF≧0.98/230\	$ PF {\geq} 0.98/230 VAC, PF {\geq} 0.97/277 VAC, PF {\geq} 0.95/347 VAC, PF {\geq} 0.93/480 VAC \ at \ full \ load \ (Please \ refer to "Power Factor Characteristic" \ curved to the property of the pr$										
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 CURREN	Т (Тур.)	COLD START 35A(twidth=790,\(\mu\) s measured at 50% lpeak) at 480VAC											
	LEAKAGE CURRE	NT	<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 OVER TEMPERATURE		14.4 ~ 16.8V	18 ~ 21V	23 ~ 27 V	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											
			100°C ±10°C (RTH2)											
	OVER TEIMIT EIGHT	OIL	Protection type: Shut down o/p voltage, recovers automatically after temperature goes down											
	WORKING TEMP.		-40 ~ +70 °C (Refer to "Derating Curve")											
	WORKING HUMID	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 STANDAL	RDS Note.6	UL8750, CSA	C22.2 No. 250).0-08, IP65 or	IP67 approved								
SAFETY &	WITHSTAND VOLT	TAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC											
EMC	ISOLATION RESIS	TANCE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1											
	EMC EMISSION			$Compliance \ to \ EN55015, \ EN61000-3-2 \ \ Class \ C \ (\ge 55\% \ load, \ge 60\% \ load \ only \ for \ 12V \ model \) \ ; \ EN61000-3-3, \ FCC \ part \ 15 \ class \ B \ decreases \ B \ decre$										
	EMC IMMUNITY		Compliance to	EN61000-4-2	2,3,4,5,6,8,11, 1	EN61547, light	industry level	(surge 4KV), c	riteria A					
	MTBF DIMENSION		158.6K hrs m		3K-217F (25°C)									
OTHERS			245*68*38.8n	, ,										
	PACKING		1.24Kg; 12pc:	-										
NOTE	All parameters Ripple & noise Tolerance: incl Derating may b A type only. Safety and EM The power sup complete instal Refer to warrar	are measure ludes set up be needed ur C design refuply is considuation, the fin	ed at 20MHz of tolerance, line nder low input er to EN60598 ered as a com nal equipment	of bandwidth by regulation and voltages. Pleas-1, CNS15233 reponent that w	y using a 12" t d load regulationse check the s d, GB7000.1. ill be operated	wisted pair-wir on. static characte in combinatio	re terminated varietics for more now with final eq	with a 0.1uf & 4 e details. uipment. Since	47uf parallel ca • EMC perform		ffected by the			





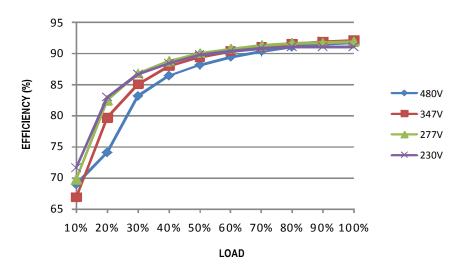






■ EFFICIENCY vs LOAD (48V Model)

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

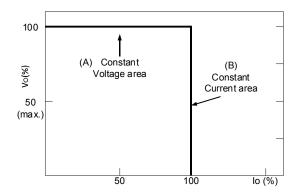


■ DRIVING METHODS OF LED MODULE

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.

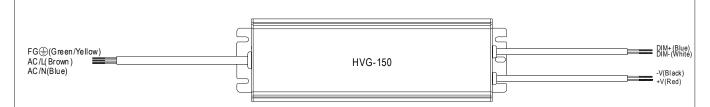
Mean Well's LED power supply with CV+ CC characteristic can be operated at both CV mode (with LED driver, at area (A) and CC mode (direct drive, at area (B).



Typical LED power supply I-V curve



■ DIMMING OPERATION



- $\frak{\ensuremath{ imes}}$ 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	40K Ω	50K Ω	60Κ Ω	70K Ω	80K Ω	90ΚΩ	100Κ Ω	OPEN
value	Multiple drivers (N=driver quantity for synchronized dimming operation)	Short	10KΩ <i>I</i> N	20K Ω /N	30K Ω <i>I</i> N	40K Ω <i>I</i> N	50K Ω <i>I</i> N	60KΩ/N	70KΩ/N	80KΩ/N	90KΩ/N	100KΩ/N	
Percentage	e of rated current	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

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

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

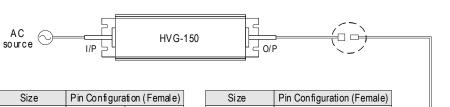
★ 10V PWM signal for output current adjustment (Typical): Frequency range: 100Hz ~ 3KHz

Duty value	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

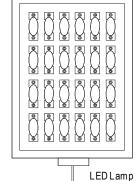
○ Waterproof connector

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

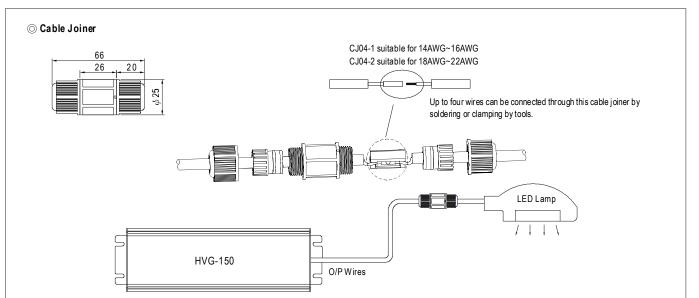


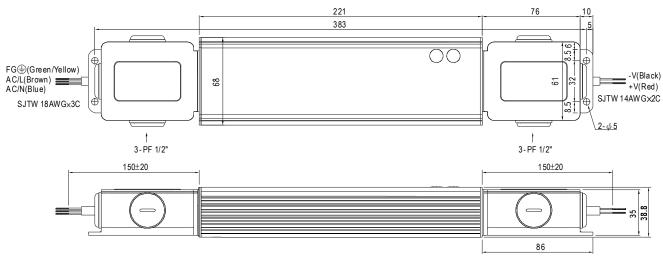
Size	Pin Configura	tion (Female)			
M12	00	000			
IVITZ	4-PIN	5-PIN			
	5A/P IN	5A/PIN			
Order No.	M12-04	M12-05			
Suitable Current	10A max.	10A max.			

Size	Pin Configuration (Female)
M 15	00
IVI IO	2-PIN
	12A/P IN
Order No.	M15-02
Suitable Current	12A max.









 \times Optional junction box available for A - type, please contact MEAW WELL for details.