



#### ■ Features :

- Constant current design
- Wide input range 180~528VAC
- Built-in active PFC function
- High efficiency up to 91%
- Protections: Short circuit / 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.7)





HVGC-150-350 A: IP65 rated. 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.

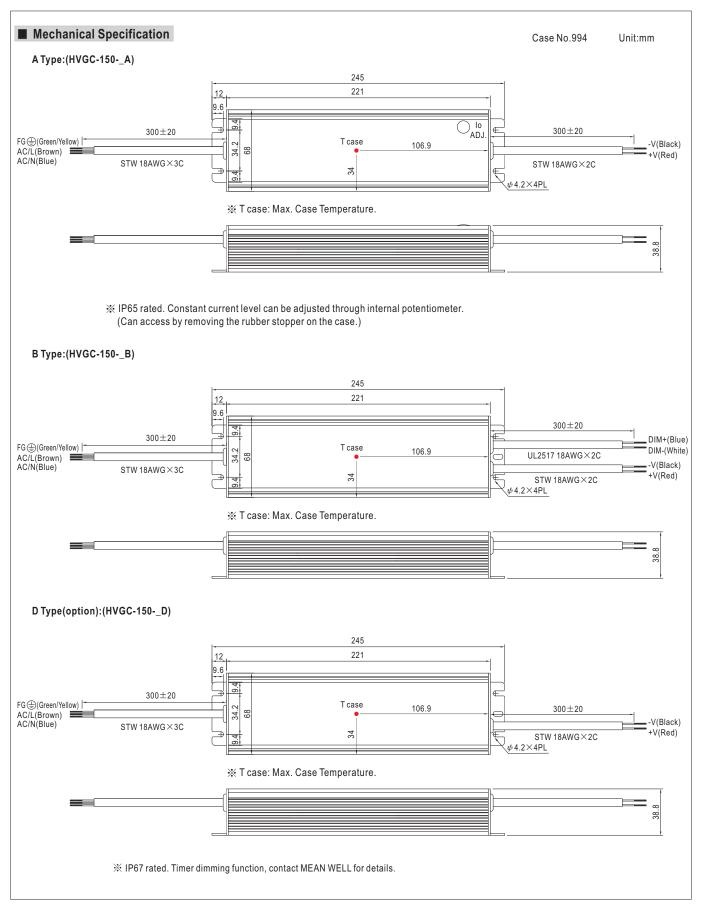
D (option): IP67 rated. Timer dimming function, contact MEAN WELL for details.

### **SPECIFICATION**

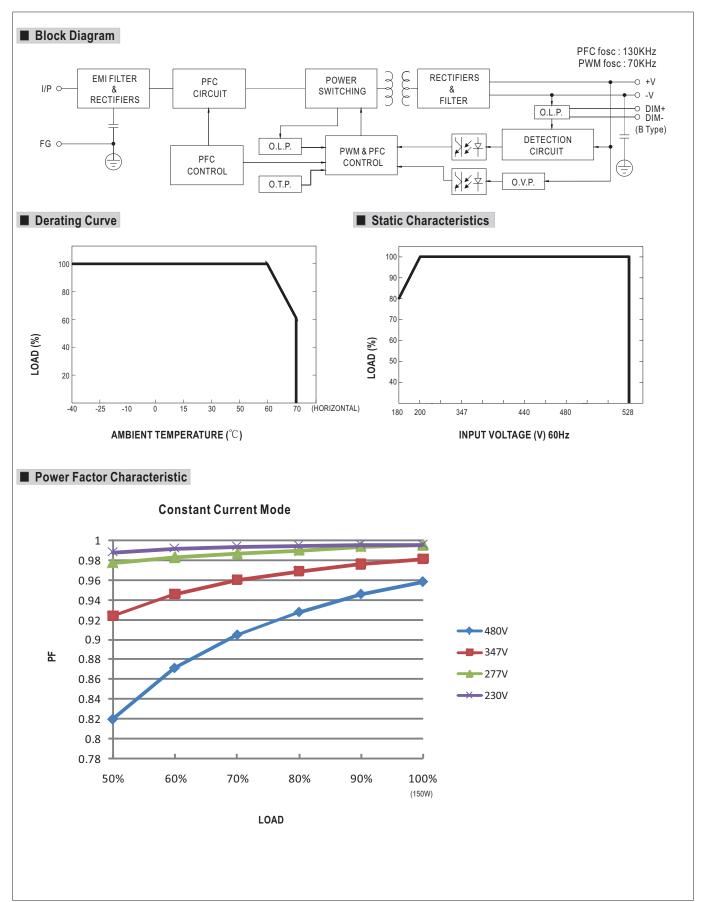
connected to the mains.

MODEL		HVGC-150-350	HVGC-150-500	HVGC-150-700	HVGC-150-1050	HVGC-150-1400					
	RATED CURRENT	350mA	500mA	700mA	1050mA	1400mA					
	CURRENT ACCURACY	±5.0%									
	OUTPUT VOLTAGE RANGE Note.4	42 ~ 428V	30 ~ 300V	21 ~ 215V	15 ~ 143V	12 ~ 107V					
	RATED POWER	149.8W	150W 150.5W 150		150.15W	149.8W					
OUTPUT	RIPPLE & NOISE (max.) Note.2	2Vp-p	1.5Vp-p	1Vp-p	0.7Vp-p	0.5Vp-p					
	CURRENT ADJ. RANGE	Can be adjusted by internal potentiometer A type only									
	CURRENT ADJ. RANGE	210 ~ 350mA	300 ~ 500mA	420 ~ 700mA	630 ~ 1050mA	840 ~ 1400mA					
	SETUP, RISE TIME	500ms, 150ms/230Vac 400ms, 150ms/347VAC/480VAC at full load; B type 500ms, 150ms/230Vac 500ms, 150ms/347VAC/480Vac at 95% loa									
	HOLD UP TIME (Typ.)	18ms at full load 480VA	.C / 347VAC								
	VOLTAGE RANGE Note.3	180 ~ 528VAC 254V	DC ~ 747VDC								
	FREQUENCY RANGE	47 ~ 63Hz									
	POWER FACTOR (Typ.)	PF≥0.98/230VAC, PF≥0.9	97/277VAC, PF≧0.95/347VA	AC, PF≧0.93/480VAC at full	load (Please refer to "Power	Factor Characteristic" curve					
INPUT	TOTAL HARMONIC DISTORTION	THD<20% when output lo	THD<20% when output loading ≥ 50% at 230VAC/277VAC/347VAC input; THD<20% when output loading ≥ 75% at 480VAC input								
INFUI	EFFICIENCY (Typ.)	91%	91%	91%	90%	90%					
	AC CURRENT (Typ.)	0.5A / 347VAC 0.38	0.5A / 347VAC								
	INRUSH CURRENT (Typ.)	COLD START 35A(twidth=790µs measured at 50% lpeak) at 480VAC									
	LEAKAGE CURRENT	<0.75mA / 480VAC									
	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed									
PROTESTION		430 ~ 460V	316 ~ 346V	226 ~ 247V	151 ~ 165V	113 ~ 124V					
PROTECTION	OVER VOLTAGE	Protection type: Shut down o/p voltage with auto-recovery or re-power on to recovery									
	OVER TEMPERATURE	Shut down o/p voltage, r	ecovers automatically aft	er temperature goes dow	n						
	WORKING TEMP.	-40 ~ +70°C (Refer to "Derating Curve")									
	WORKING HUMIDITY	20 ~ 95% RH non-conder									
ENVIRONMENT	STORAGE TEMP., HUMIDITY -40 ~ +80 °C, 10 ~ 95% RH										
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)									
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes									
	SAFETY STANDARDS Note.5	UL8750, CSA C22.2 No. 2	JL8750, CSA C22.2 No. 250.0-08, TUV EN61347-1, EN61347-2-13, IP65 or IP67 approved								
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P	-FG:2KVAC O/P-FG:0.	5KVAC							
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH									
EIVIC	EMC EMISSION	Compliance to EN55015,	EN61000-3-2 Class C (≧	50% load) ; EN61000-3-3,	FCC part 15 class B						
	EMC IMMUNITY	Compliance to EN61000-	4-2,3,4,5,6,8,11, EN61547	, light industry level (surge	4KV), criteria A						
	MTBF	179.5K hrs min. MIL-H	DBK-217F (25°C)								
OTHERS	DIMENSION	245*68*38.8mm (L*W*H)									
	PACKING	1.24Kg; 12pcs/15.9Kg/0.78CUFT									
NOTE	All parameters NOT special     Ripple & noise are measure     Derating may be needed ure     Please refer to "DRIVING Notes after the safety and EMC design refined to the supply is consided complete installation, the firest refer to warranty statement.     To fulfill requirements of the	ad at 20MHz of bandwidth nder low input voltages. P IETHODS OF LED MOD er to EN60598-1, CNS152 ered as a component that al equipment manufacture t.	by using a 12" twisted polease check the static character. 233, GB7000.1.  will be operated in combers must re-qualify EMC [	air-wire terminated with a tracteristics for more deta ination with final equipme Directive on the complete	0.1uf parallel capacitor. ils.  Int. Since EMC performan installation again.	•					





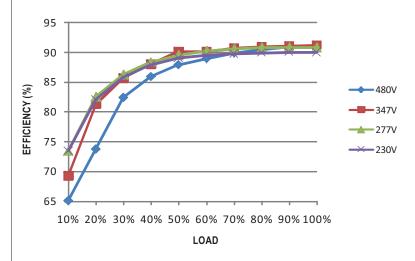






# ■ EFFICIENCY vs LOAD (HVGC-150-350 Model)

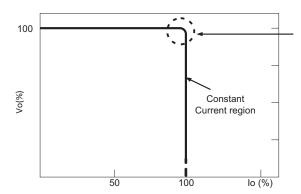
HVGC-150 series possess superior working efficiency that up to 91% can be reached in field applications.



### ■ DRIVING METHODS OF LED MODULE

A typical LED power supply may work in "constant current mode (CC)" to drive the LEDs.

Mean Well's LED power supply with CC characteristic can be operated at CC mode (direct drive).



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.

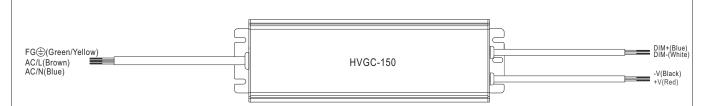
Should there be any compatibility issues, please contact MEAN WELL.

Original :Constant Current area

Original :Solid line



# **■** DIMMING OPERATION



- 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 ~ 10Vdc or 10V PWM signal between DIM+ and DIM-.
- $\ensuremath{\mathbb{X}}$  Please DO NOT connect "DIM-" to "-V".
- \* Reference resistance value for output current adjustment (Typical)

Resistance	Single driver	Short	<b>10K</b> Ω	20ΚΩ	30K Ω	$40$ K $\Omega$	50K $\Omega$	60K Ω	70K $\Omega$	80KΩ	90ΚΩ	100K $\Omega$	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%

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%

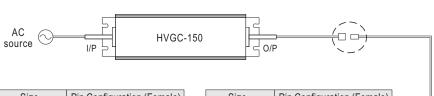
¾ 10V PWM signal for output current adjustment (Typical): Frequency range: 100Hz ~ 3KHz

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

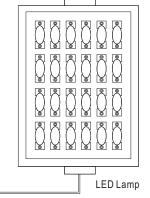
O Waterproof connector

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



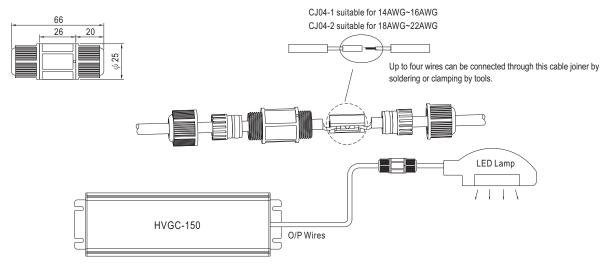
Size	Pin Configuration (Female)					
M12	00	000				
IVI I Z	4-PIN	5-PIN				
	5A/PIN	5A/PIN				
Order No.	M12-04	M12-05				
Suitable Current	10A max.	10A max.				

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









%CJ04 cable joiner can be purchased independently for user's own assembly. MEAN WELL order No. : CJ04-1, CJ04-2.

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