



■ 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.6)



HVGC-150-350 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.

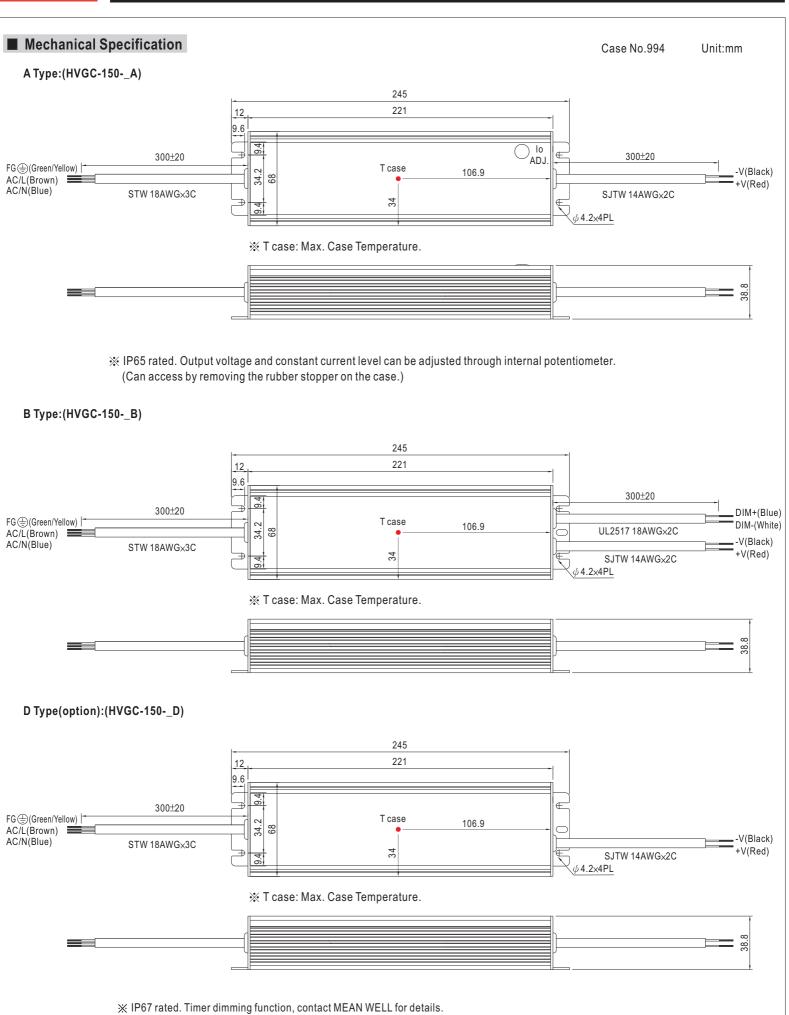
SPECIFICATION

MODEL		HVGC-150-350	HVGC-150-500	HVGC-150-700	HVGC-150-1050	HVGC-150-1400							
	RATED CURRENT	350mA	500mA	700mA	1050mA	1400mA							
ОИТРИТ	CURRENT ACCURACY	±5.0%											
	MAX. OUTPUT VOLTAGE	42 ~ 428V	30 ~ 300V	21 ~ 215V	15 ~ 143V	12 ~ 107V							
	RATED POWER	149.8W	150W	150.5W	150.15W	149.8W							
	RIPPLE & NOISE (max.) Note.2	2Vp-p	1.5Vp-p	1Vp-p	1Vp-p	1Vp-p							
	CURRENT AR L DANCE	Can be adjusted by internal potentiometer or through output cable											
	CURRENT ADJ. RANGE	210 ~ 350mA	300 ~ 500mA	420 ~ 700mA	630 ~ 1050mA	840 ~ 1400mA							
	SETUP, RISE TIME	2700ms, 150ms at full loa	d 480VAC/347VAC; E	3 type 5000ms, 150ms at 9	95% load 480VAC / 347	'VAC							
	HOLD UP TIME (Typ.)	18ms at full load 480VAC / 347VAC											
	VOLTAGE RANGE Note.3	180 ~ 528VAC 254V											
	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 "Powe	r Factor Characteristic" cur							
NPUT	EFFICIENCY (Typ.)	91%	91%	91%	90%	90%							
	AC CURRENT (Typ.)	0.5A / 347VAC 0.38											
	INRUSH CURRENT (Typ.)	COLD START 55A / 480VAC											
	LEAKAGE CURRENT	<0.75mA / 480VAC											
PROTECTION	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed											
	OVER VOLTA OF	430 ~ 460V	316 ~ 346V	226 ~ 247V	151 ~ 165V	113 ~ 124V							
	OVER VOLTAGE	Protection type : Shut down o/p voltage, re-power on to recovery											
		95°C ±10°C (RTH2)											
	OVER TEMPERATURE	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 HUMIDITY	20 ~ 95% RH non-condensing											
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH											
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)											
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes											
	SAFETY STANDARDS Note.4	UL8750, 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											
	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 (≧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-HDBK-217F (25°C)											
OTHERS	DIMENSION	245*68*38.8mm (L*W*H)											
	PACKING	1.24Kg; 12pcs/15.9Kg/0.78CUFT											
NOTE	2. Ripple & noise are measure	ed at 20MHz of bandwidth	mentioned are measured at 347VAC input, rated load and 25°C of ambient temperature. at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf parallel capacitor. ler low input voltages. Please check the static characteristics for more details.										

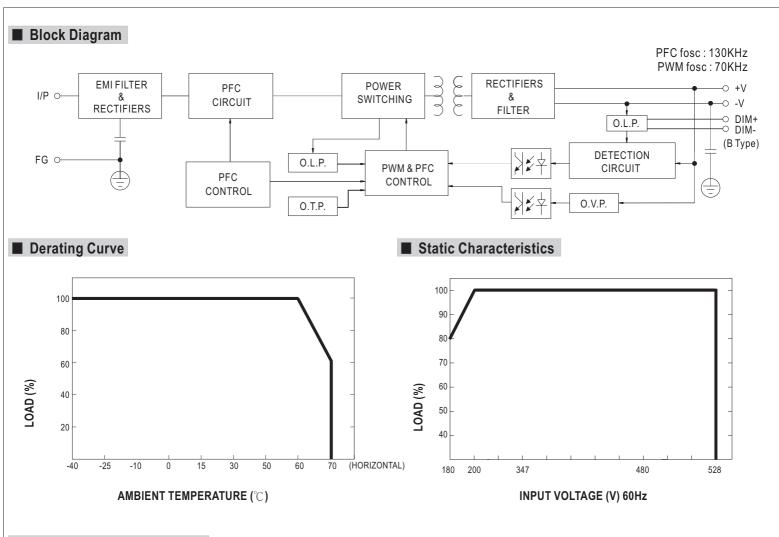
- 4. Safety and EMC design refer to EN60598-1, CNS15233, GB7000.1.
- 5. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.

6. Refer to warranty statement.



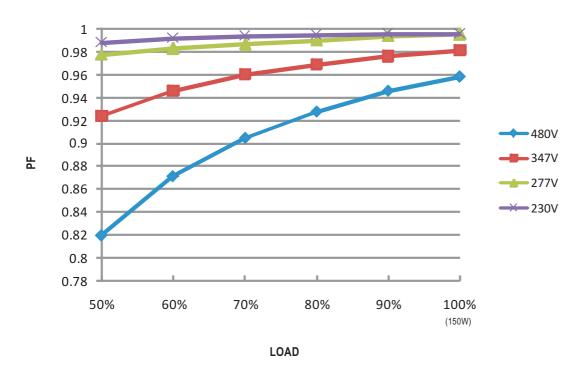






■ Power Factor Characteristic

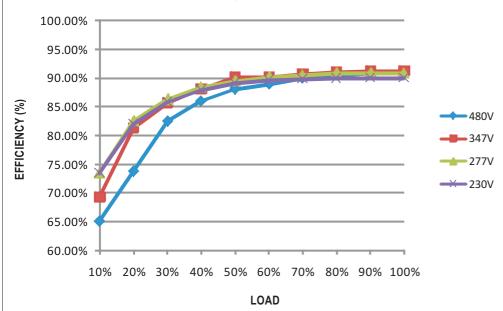






■ EFFICIENCY vs LOAD (HVGC-150-350 Model)

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

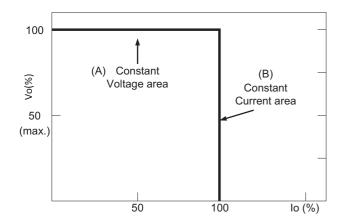


■ DRIVING METHODS OF LED MODULE

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.

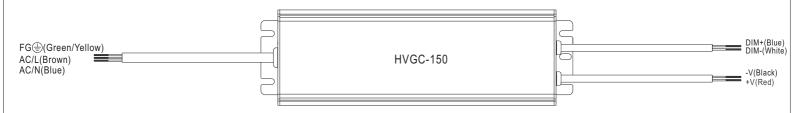
Mean Well's LED power supply with CV+ CC characteristic can be operated at both CV mode (with LED driver, at area (A) and CC mode (direct drive, at area (B).



Typical LED power supply I-V curve



■ DIMMING OPERATION



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

Resistance value	Single driver	10K Ω	20K Ω	30K Ω	40K Ω	50K Ω	60K Ω	70 Κ Ω	80K Ω	90K Ω	100K Ω	OPEN
	Multiple drivers (N=driver quantity for synchronized dimming operation)	10KΩ/N	20K Ω /N	30KΩ/N	40K Ω /N	50K Ω /N	60KΩ/N	70KΩ/N	80KΩ/N	90KΩ/N	100KΩ/N	
Percentage of rated current		10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	102%~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%	102%~108%

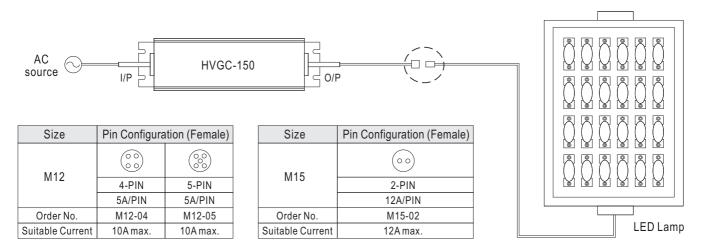
× 10V PWM signal for output current adjustment (Typical): Frequency range :100Hz ~ 3KHz

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%	102%~108%

■ WATERPROOF CONNECTION

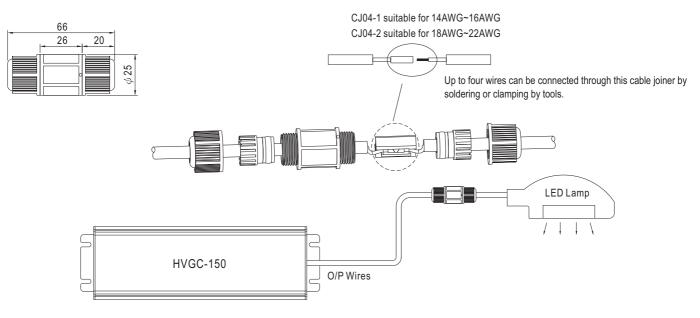
Waterproof connector

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

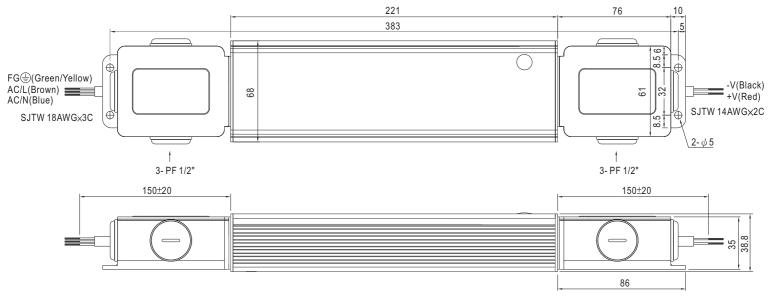








Junction Box(Option)



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