



■ 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-100-350 A: IP65 rated. Constant current level can be adjusted through internal potentiometer.

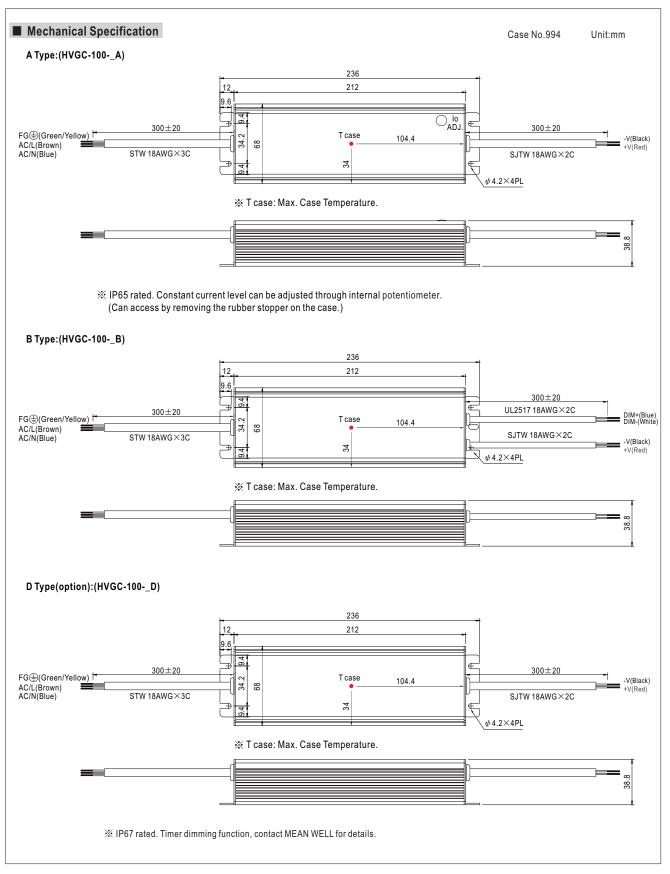
B: IP67 rated. Constant current level adjustable through output cable with 0~10Vdc or 10V PWM signal or resistance.

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

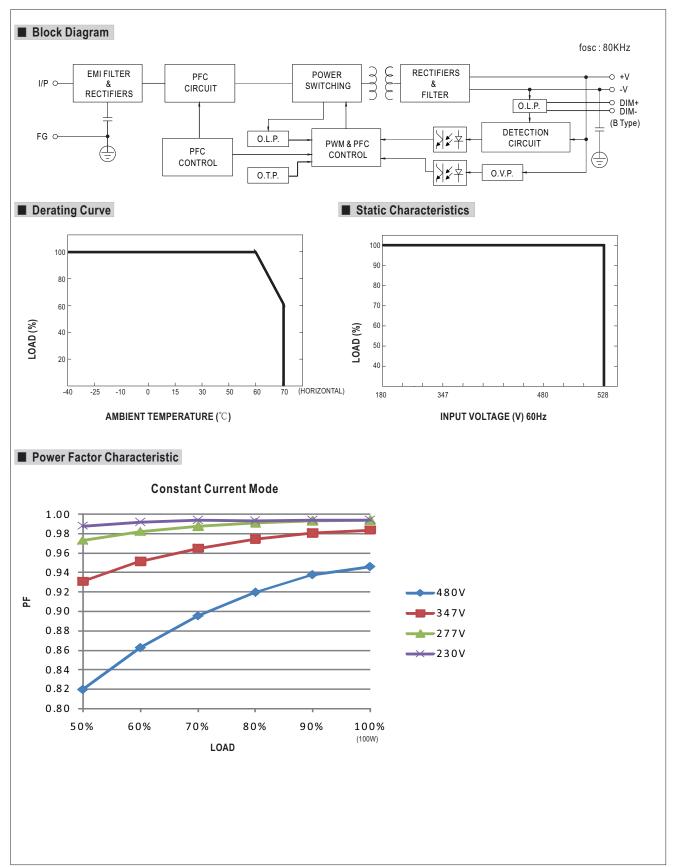
SPECIFICATION

MODEL		HVGC-100-350	HVGC-100-700									
	RATED CURRENT	350mA	700mA									
	CURRENT ACCURACY	±5.0%	TOOMA									
	OUTPUT VOLTAGE RANGE Note.4		15 ~ 142V									
	RATED POWER	99.75W	99.4W									
OUTPUT	RIPPLE & NOISE (max.) Note.2		0.5Vp-p									
	== 0.11010= (Can be adjusted by internal potentiometer A type only	0.016									
	CURRENT ADJ. RANGE	210 ~ 350mA	420 ~ 700mA									
	SETUP, RISE TIME	500ms, 80ms 230VAC / 347VAC / 480VAC at full load ; B type 500ms, 280ms 230VAC / 347VAC / 480VAC at 95% load										
	HOLD UP TIME (Typ.)	30ms at full load 480VAC / 347VAC										
	VOLTAGE RANGE Note.3	180 ~ 528VAC 254VDC ~ 747VDC										
	FREQUENCY RANGE	47 ~ 63Hz										
	POWER FACTOR (Typ.)		3/480VAC at full load (Please refer to "Power Factor Characteristic" curve)									
	TOTAL HARMONIC DISTORTION	THD<20% when output loading≥50% at 230VAC/277VAC/347VAC input ; THD<20% when output loading≥75% at 480VAC input										
	EFFICIENCY (Typ.)	91%										
INPUT	AC CURRENT (Typ.)	0.38A/347VAC										
	INRUSH CURRENT (Typ.)	COLD START 25A(twidth=900µs measured at 50% lpeak) at 480VA	C									
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	5 units (circuit breaker of type B) / 8 units (circuit breaker of type C) at 480VAC										
	LEAKAGE CURRENT	<0.75mA / 480VAC										
	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed										
		300 ~ 320V	150 ~ 160V									
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, recovers automatically after temperature goes down										
	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)										
ĺ	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes										
	SAFETY STANDARDS Note.5	UL8750, CSA C22.2 No. 250.0-08, TUV EN61347-1, EN61347-2-13, IP65 or IP67 approved; design refer to UL60950-1, TUV EN60950-1										
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC										
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	186.1K hrs min. MIL-HDBK-217F (25°C)										
OTHERS	DIMENSION	236*68*38.8mm (L*W*H)										
	PACKING	1.18Kg; 12pcs/15.2Kg/0.74CUFT										
NOTE	1. All parameters NOT specially mentioned are measured at 347VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 2.2uf parallel capacitor. 3. Derating may be needed under low input voltages. Please check the static characteristics for more details. 4. Please refer to "DRIVING METHODS OF LED MODULE" and "DIMMING OPERATION". 5. Safety and EMC design refer to EN60598-1, CNS15233, GB7000.1. 6. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. 7. Refer to warranty statement. 8. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains.											
			File Name: HVGC-100-SPEC 2015-05-2									





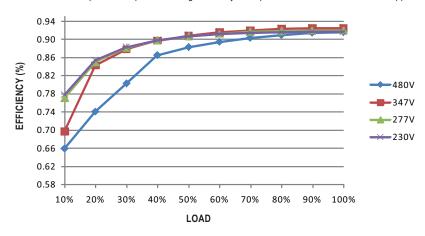






■ EFFICIENCY vs LOAD (HVGC-100-700 Model)

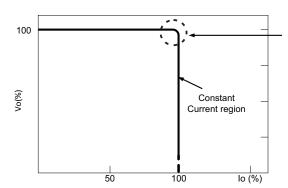
HVGC-100 series possess superior working efficiency that up to 91% can be reached in field applications.



■ 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).



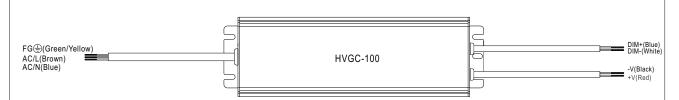
Typical LED power supply I-V curve

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.



■ DIMMING OPERATION (for B-type only)



- ※ Please DO NOT connect "DIM-" to "-V".
- X Reference resistance value for output current adjustment (Typical)
- X Output voltage limit of 50%.

Resistance value	Single driver	Short	10K Ω	20KΩ	30K Ω	40K Ω	50K Ω	60K Ω	70K Ω	80KΩ	90K Ω	100K Ω	OPEN
	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 of rated current		0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

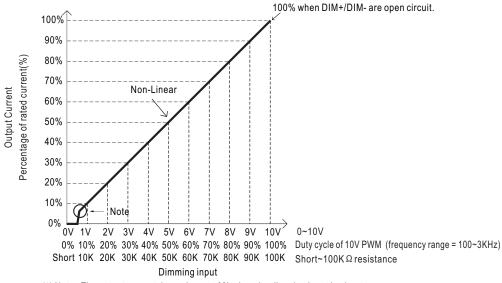
※ 0 ~ 10V dimming function for output current adjustment (Typical)

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%

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%

O Dimming Characteristic



 \Re Note : The output current drops down to 0% when the dimming input is about $6K\,\Omega$ or 0.6Vdc, or 10V PWM signal with 6% duty cycle.

■ WATERPROOF CONNECTION

O Waterproof connector

Waterproof connector can be assembled on the output cable of HVGC-100 to operate in dry/wet/damp or outdoor environment.

