



■ Features :

- · Constant current design
- Wide input range 180~480VAC
- · 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-100-350 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.

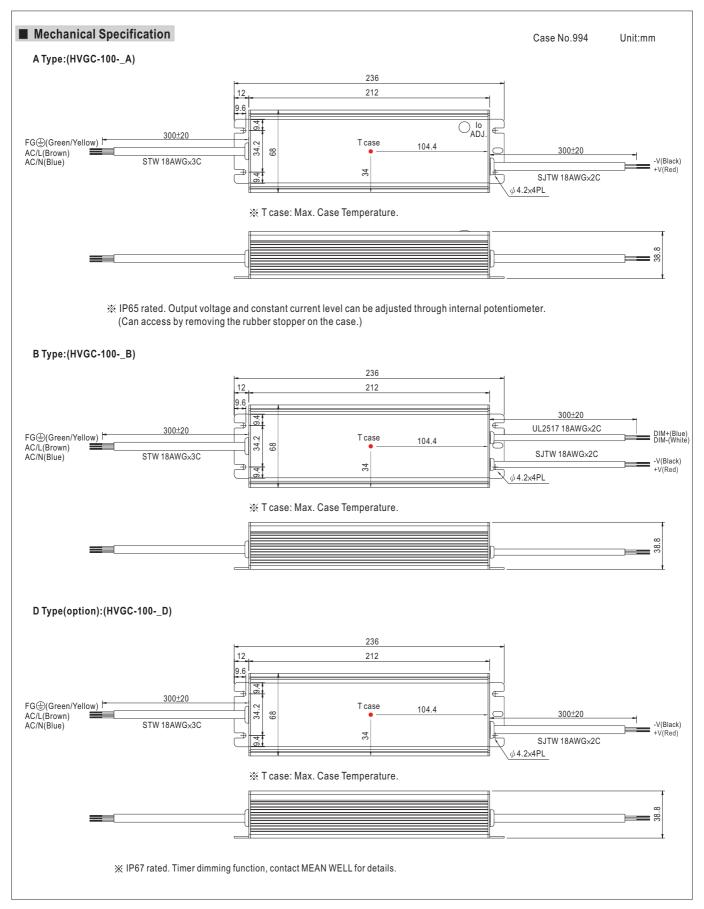
D (option): IP67 rated. Timer dimming function, contact MEAN WELL for details.

SPECIFICATION

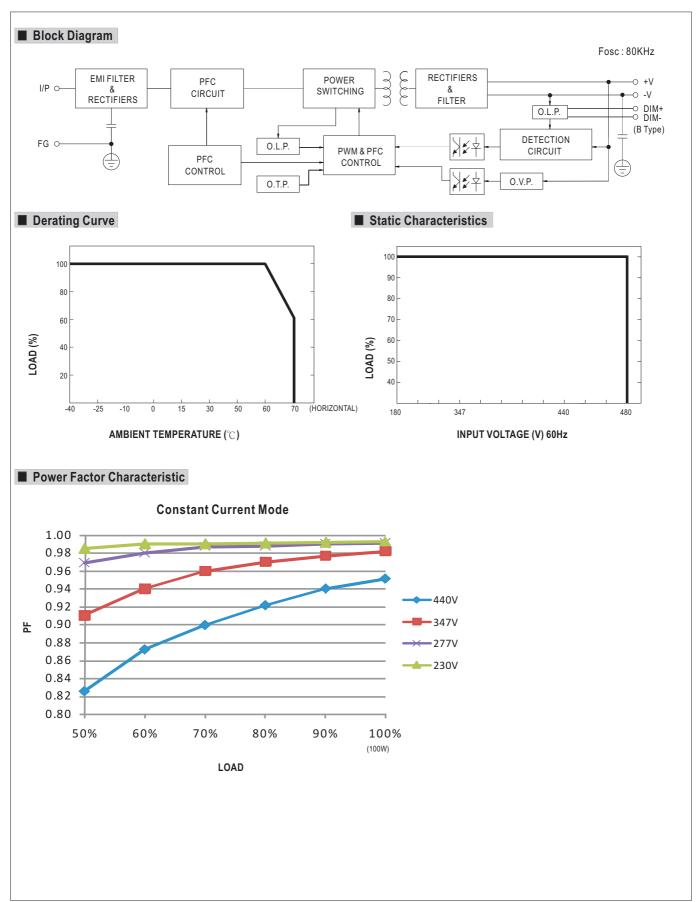
6. Refer to warranty statement.

MODEL		HVGC-100-350		HVGC-100-700				
	RATED CURRENT	350mA		700mA				
	CURRENT ACCURACY	±5.0%						
	OUTPUT VOLTAGE	29 ~ 285V		15 ~ 142V				
	RATED POWER	99.75W		99.4W				
OUTPUT	RIPPLE & NOISE (max.) Note.2	1Vp-p		0.5Vp-p				
	CURRENT ADJ. RANGE	Can be adjusted by internal potentiometer A type only						
	CURRENT ADJ. RANGE	210 ~ 350mA 420 ~ 700mA						
	SETUP, RISE TIME	3000ms, 150ms a	t full load 440VAC / 347VAC; B type 5000r	s, 150ms at 95% load 440VAC / 347VAC				
	HOLD UP TIME (Typ.)	30ms at full load						
	VOLTAGE RANGE Note.3	180 ~ 480VAC	254VDC ~ 679VDC					
	FREQUENCY RANGE	47 ~ 63Hz						
	POWER FACTOR (Typ.)	PF≥0.98/230VAC	$PF \ge 0.98/277VAC$, $PF \ge 0.97/347VAC$, $PF \ge 0.94/347VAC$	440VAC at full load (Please refer to "Power Factor Characteristic" curve)				
INPUT	EFFICIENCY (Typ.)	91%		91%				
	AC CURRENT (Typ.)	0.32A / 347VAC						
	INRUSH CURRENT (Typ.)	COLD START 25A(twidth=360 μ s measured at 50% lpeak) at 440VAC						
	LEAKAGE CURRENT	<0.75mA / 440VAC						
	SHORT CIRCUIT	Constant current	limiting, recovers automatically after fault cond	dition is removed				
	OVERVOLTACE	300 ~ 320V		150 ~ 160V				
PROTECTION	OVER VOLTAGE	Protection type :	Shut down o/p voltage with auto-recovery or	re-power on to recovery				
	OVED TEMPEDATURE	100°C ±10°C (RTH2)						
	OVER TEMPERATURE	Protection type: 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)						
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes						
	SAFETY STANDARDS Note.4	4 UL8750, CSA C22.2 No. 250.0-08, TUV EN61347-1, EN61347-2-13, IP65 or IP67 approved; design refer to UL60950-1, TUV EN6						
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						
LIVIC	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	Ripple & noise are measure Derating may be needed ure Safety and EMC design ref The power supply is consider.	Illy mentioned are measured at 347VAC input, rated load and 25°C of ambient temperature. ed at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 2.2uf parallel capacitor. Inder low input voltages. Please check the static characteristics for more details. Iter to EN60598-1, CNS15233, GB7000.1. Idered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the hall equipment manufacturers must re-qualify EMC Directive on the complete installation again.						





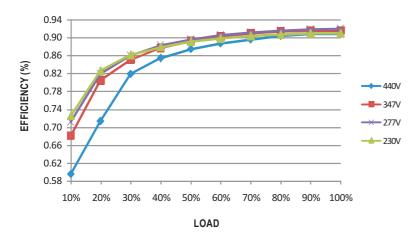






■ EFFICIENCY vs LOAD (HVGC-100-700 Model)

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

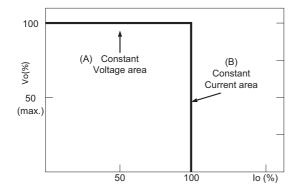


■ DRIVING METHODS OF LED MODULE

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.

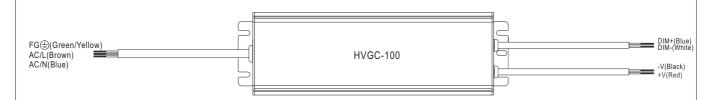
Mean Well's LED power supply with CV+ CC characteristic can be operated at both CV mode (with LED driver, at area (A) and CC mode (direct drive, at area (B).



Typical LED power supply I-V curve



■DIMMING OPERATION (for B-type only)



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

Re	Resistance	Single driver	10K Ω	20K Ω	30K Ω	40K Ω	50K Ω	60K Ω	70K Ω	80K Ω	90K Ω	100K Ω	OPEN
1	ilue	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	
Pe	ercentage	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%

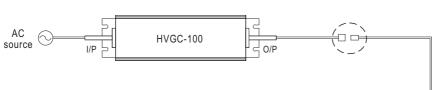
* 10V PWM signal for output current adjustment (Typical): Frequency range:100Hz ~ 3KHz

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 HVGC-100 to operate in dry/wet/damp or outdoor environment.



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

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

