



■ 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.

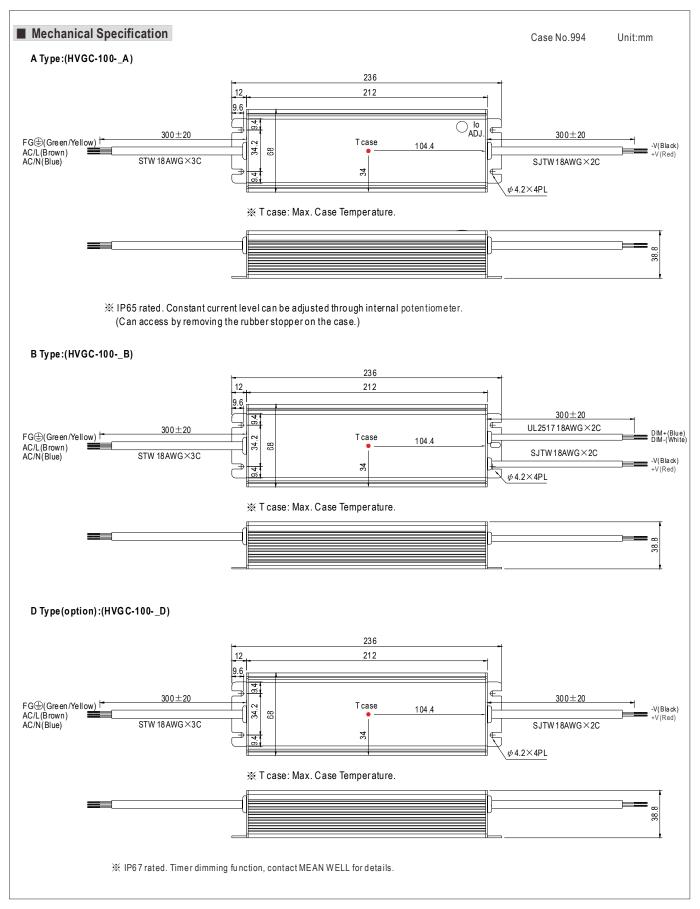
B: IP67 rated. Constant current level adjustable through output cable with 0~10Vdc or 10V PWM signal or resistance.

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

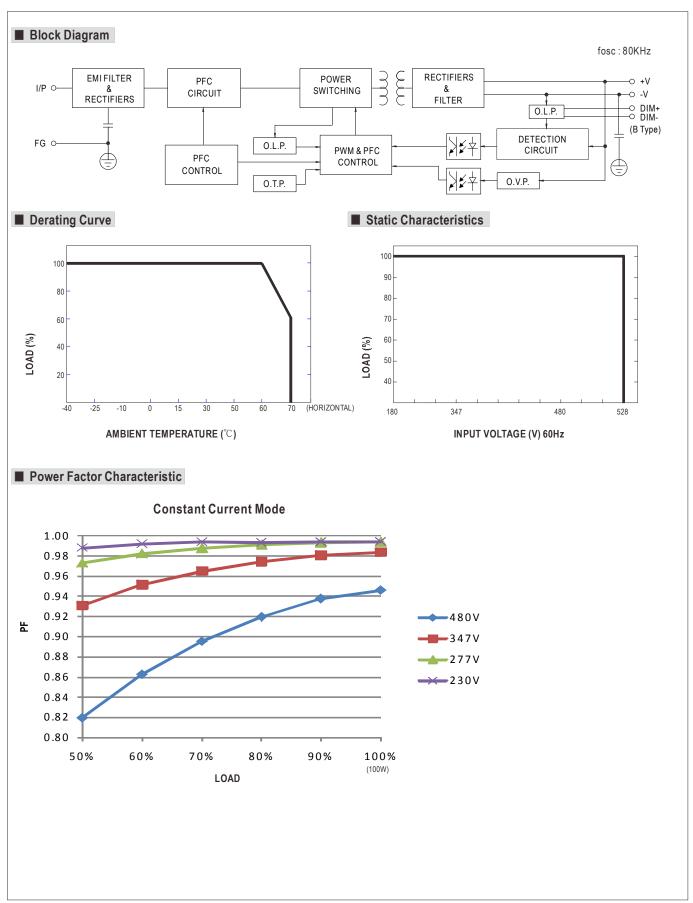
SPECIFICATION

MODEL		HVGC-100-350	HVGC-100-700							
	RATED CURRENT	350mA	700mA							
	CURRENT ACCURACY	±5.0%								
	OUTPUT VOLTAGE RANGE Note.4	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 at full load 480VAC / 347VAC ; B type 5000m	ns, 150ms at 95% load 480VAC / 347VAC							
	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.)	PF≥0.98/230VAC, PF≥0.98/277VAC, PF≥0.97/347VAC, PF≥0.93/4	480VAC at full load (Please refer to "Power Factor Characteristic" curve)							
	TOTAL HARMONIC DISTORTION	THD<20% when output loading≥50% at 230VAC/277VAC/347V	AC input ; THD<20% when output loading≧75% at 480VAC input							
INPUT	EFFICIENCY (Typ.)	91%	91%							
	AC CURRENT (Typ.)	0.38A / 347VAC								
	INRUSH CURRENT (Typ.)	COLD START 25A(twidth=900 μ s measured at 50% Ipeak) at 480VAC	<u> </u>							
	LEAKAGE CURRENT	<0.75mA / 480VAC								
	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condi	tion is removed							
PROTECTION	OVER VOLTAGE	300 ~ 320V 150 ~ 160V								
PROTECTION	OVER VOLIAGE	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	$\pm 0.03\%$ °C (0 ~ 50°C)								
	VIBRATION	$10 \sim 500$ Hz, $5G 12$ min./1cycle, period for 72 min. 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: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 industr	y 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". 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 by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. 7. Refer to warranty statement.									
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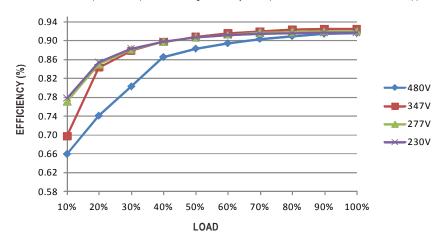






■ EFFICIENCY vs LOAD (HVGC-100-700 Model)

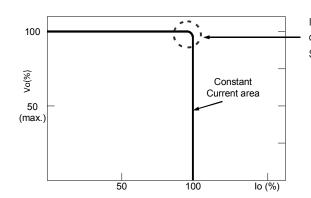
HVGC-100 series possess superior working efficiency that up to 91% can be reached in field applications.



■ 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).



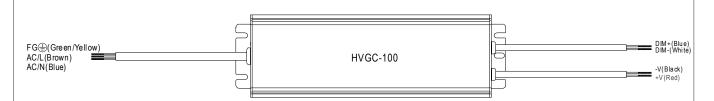
Typical LED power supply I-V curve

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)



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

Resistance	Single driver	Short	10K Ω	20Κ Ω	30K Ω	40K Ω	50K Ω	60K Ω	70K Ω	80K Ω	90K Ω	100Κ Ω	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	
ĺ	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	0 V	1V	2V	3V	4V	5V	6V	7V	8V	9 V	10 V	OPEN
Percentage of rated current	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

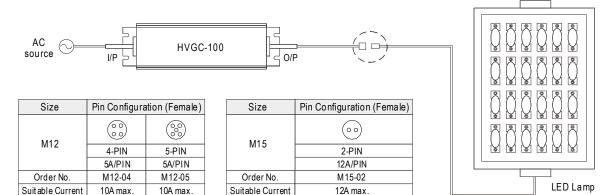
¾ 10V PWM signal for output current adjustment (Typical): Frequency range :100Hz ~ 3KHz

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%

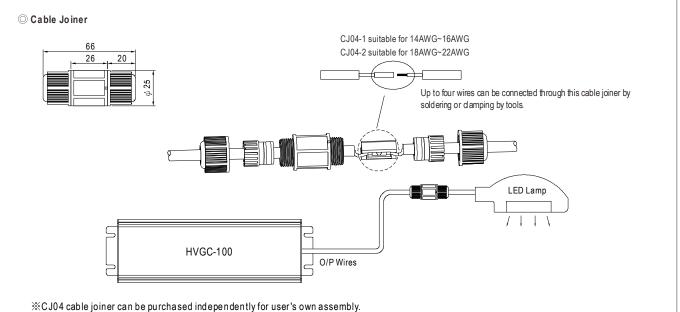
■ WATERPROOF CONNECTION

O Waterproof connector

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







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

O Junction Box (Option)

