



Features :

- Wide input range 180~480VAC
- Built-in active PFC function
- High efficiency up to 92%
- · 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
 A : IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.

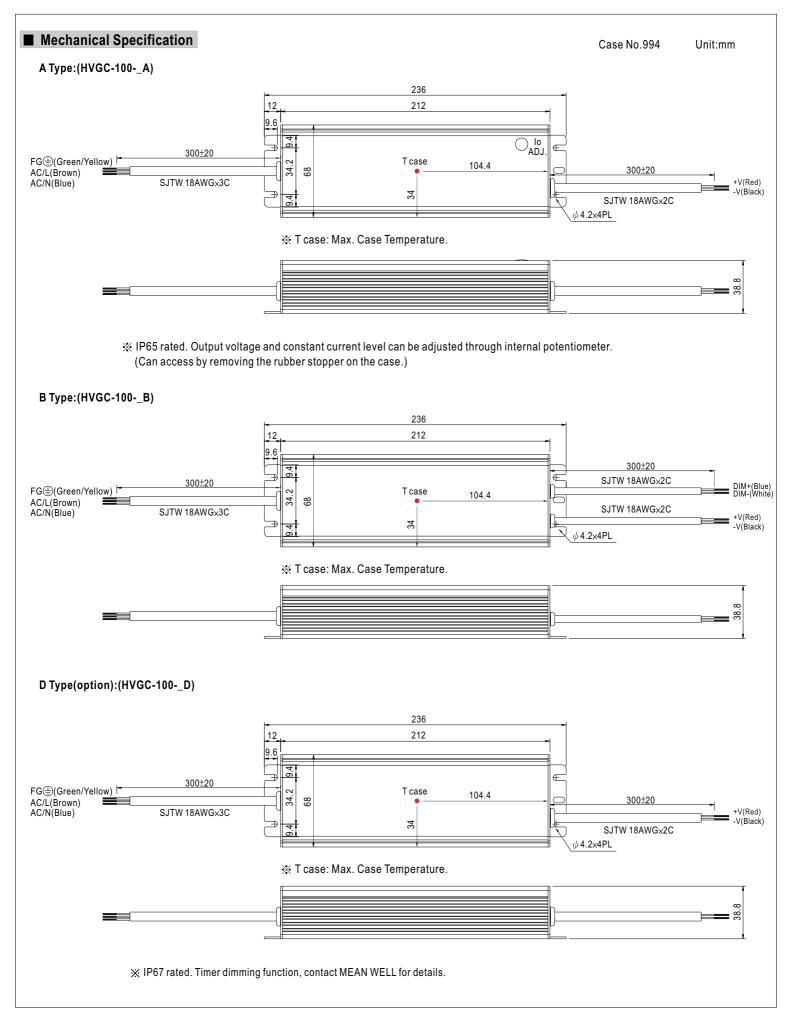
 B : IP67 rated. Constant current level adjustable through output cable with 0~10Vdc or 10V PWM signal or resistance.

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

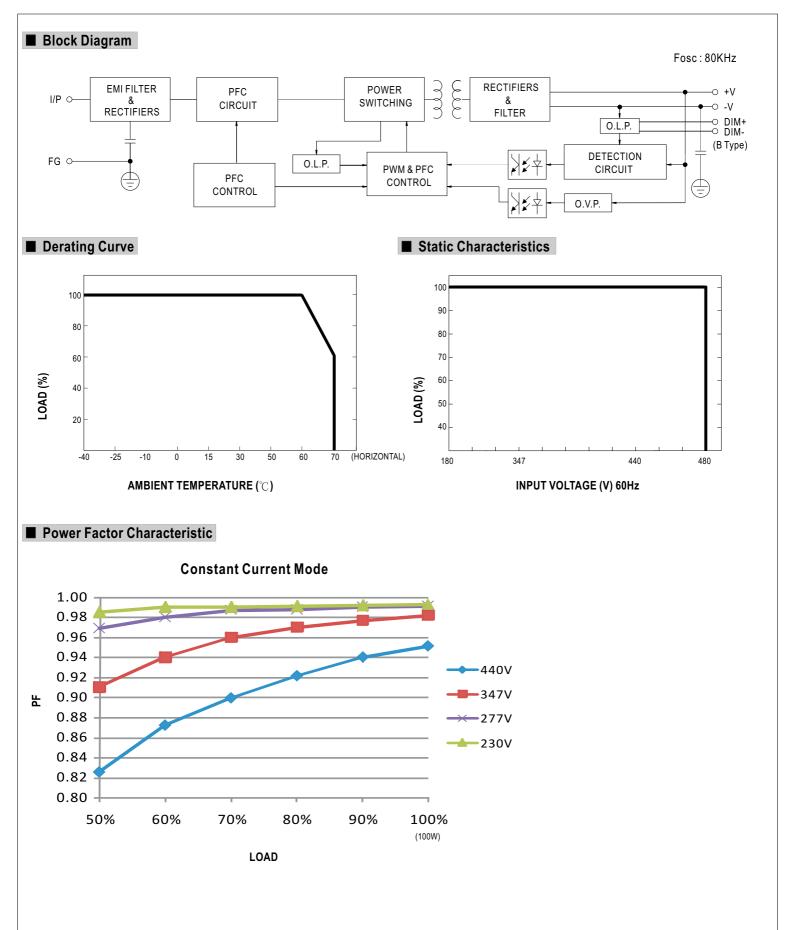
SPECIFICATION

MODEL		HVGC-100-350	HVGC-100-700					
	RATED CURRENT	350mA						
OUTPUT	CURRENT ACCURACY	±5.0%						
	MAX. OUTPUT VOLTAGE	285V	142V					
	RATED POWER	99.75W	99.4W					
	RIPPLE & NOISE (max.) Note.2	1Ур-р	0.5Vp-p					
		Can be adjusted by internal potentiometer or through output cable						
	CURRENT ADJ. RANGE	210 ~ 350mA 420 ~ 700mA						
	SETUP, RISE TIME	3000ms, 150ms at full load 440VAC / 347VAC ; B type 5000ms, 150ms at 95% load 440VAC / 347VAC						
	HOLD UP TIME (Typ.)	30ms at full load 440VAC / 347VAC						
	VOLTAGE RANGE Note.3	180 ~ 480VAC 254VDC ~ 679VDC						
	FREQUENCY RANGE	47 ~ 63Hz						
	POWER FACTOR (Typ.)	PF≧0.99/230VAC, PF≧0.98/277VAC, PF≧0.97/347VAC, PF≧0.94/440VAC at full load (Please refer to "Power Factor Characteristic" cur						
INPUT	EFFICIENCY (Typ.)	92%	92%					
	AC CURRENT (Typ.)	0.32A / 347VAC 0.26A / 440VAC						
	INRUSH CURRENT (Typ.)	COLD START 40A / 440VAC						
	LEAKAGE CURRENT	<0.75mA / 440VAC						
	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed						
	OVER VOLTAGE	300 ~ 320V	150 ~ 160V					
PROTECTION	OVERVOLIAGE	Protection type : Shut down o/p voltage with auto-recovery or re-power on to recovery						
		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	UL8750, CSA C22.2 No. 250.0-08, EN61347-1, EN61347-2-13 independent, IP65 or IP67 approved ; Design refer to UL60950-1						
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:1.88KVAC 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						
	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						
OTHERS	MTBF	186.1Khrs min. MIL-HDBK-217F ($25^{\circ}C$)						
	DIMENSION	236*68*38.8 mm (L*W*H)						
	PACKING	1.18Kg; 12pcs/15.2Kg/0.74CUFT						
NOTE	 Ripple & noise are measure Derating may be needed under the state of t	cially mentioned are measured at 347VAC input, rated load and 25°C of ambient temperature. ured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 2.2uf parallel capacitor. under low input voltages. Please check the static characteristics for more details. refer to EN60598-1, CNS15233, GB7000.1. sidered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. ent.						





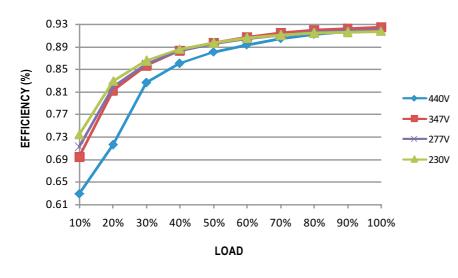






EFFICIENCY vs LOAD (HVGC-100-700 Model)

HVGC-100 series possess superior working efficiency that up to 92% can be reached in field applications.

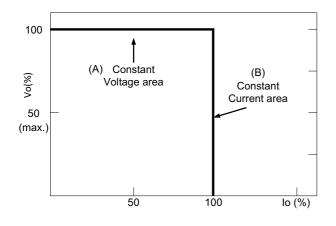


DRIVING METHODS OF LED MODULE

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.

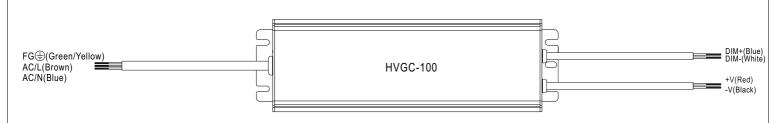
Mean Well's LED power supply with CV+ CC characteristic can be operated at both CV mode (with LED driver, at area (A) and CC mode (direct drive, at area (B).



Typical LED power supply I-V curve



■ DIMMING OPERATION



※ 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".

 $\label{eq:Reference} \ensuremath{\mathsf{Reference}}\xspace \ensuremath{\mathsf{resistance}}\xspace \ensuremath{\mathsf{value}}\xspace \ensuremath{\mathsf{resistance}}\xspace \ensuremath{\mathsf{resistanc$

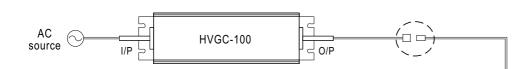
Resistance value	Single driver	10K Ω	20Κ Ω	30K Ω	40K Ω	50Κ Ω	60K Ω	70Κ Ω	80K Ω	90Κ Ω	100K Ω	OPEI	Ν
	Multiple drivers (N=driver quantity for synchronized dimming operation)	10KΩ/N	20KΩ/N	30KΩ/N	40KΩ/N	50KΩ/N	60KΩ/N	70K Ω/N	80KΩ/N	90KΩ/N	100KΩ/N		
Percentage of rated current		10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	102%~1	08%
※ 1 ~ 10V d	limming function for	output c	urrent ad	justment	(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%	102%~108%
※ 10V PWN	I signal for output c	urrent ad	justment	(Typical)	: Freque	ncy range	e :100Hz	~ 3KHz					·
Duty value		10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEI	Ν
Percentage of rated current		10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	102%~1	08%

XUsing the built-in dimming function on B-type model can't turn the lighting fixture totally dark. Please refer to the connection method below to achieve 0% brightness of the lighting fixture connecting to the LED power supply unit.

■ WATERPROOF CONNECTION

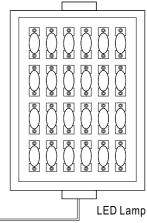
◎ Waterproof connector

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



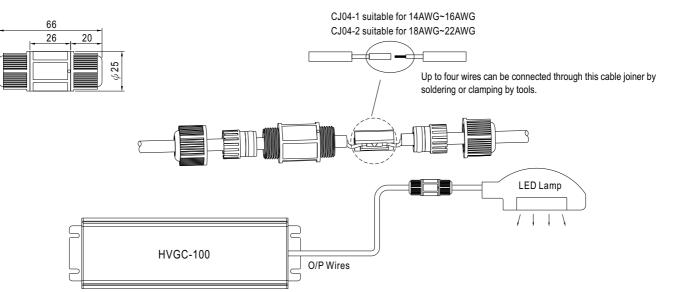
Size	Pin Configuration (Female)			
M12				
IVI I Z	4-PIN	5-PIN		
	5A/PIN	5A/PIN		
Order No.	M12-04	M12-05		
Suitable Current	10A max.	10A max.		

Size	Pin Configuration (Female)		
M15	$\bigcirc \bigcirc$		
IVI I J	2-PIN		
	12A/PIN		
Order No.	M15-02		
Suitable Current	12A max.		



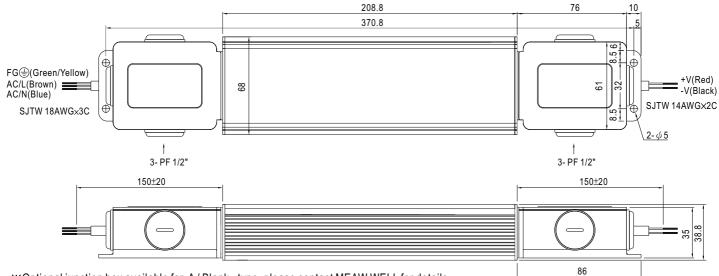


◎ Cable Joiner



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

\odot Junction Box(Option)



% Optional junction box available for A / Blank - type, please contact MEAW WELL for details.