



■ 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)

















 $HVGC-100-350 \boxed{\textbf{A}} \quad \textbf{A}: IP65 \ rated. \ Constant \ current \ level \ can \ be \ adjusted \ through \ internal \ potentiometer.$

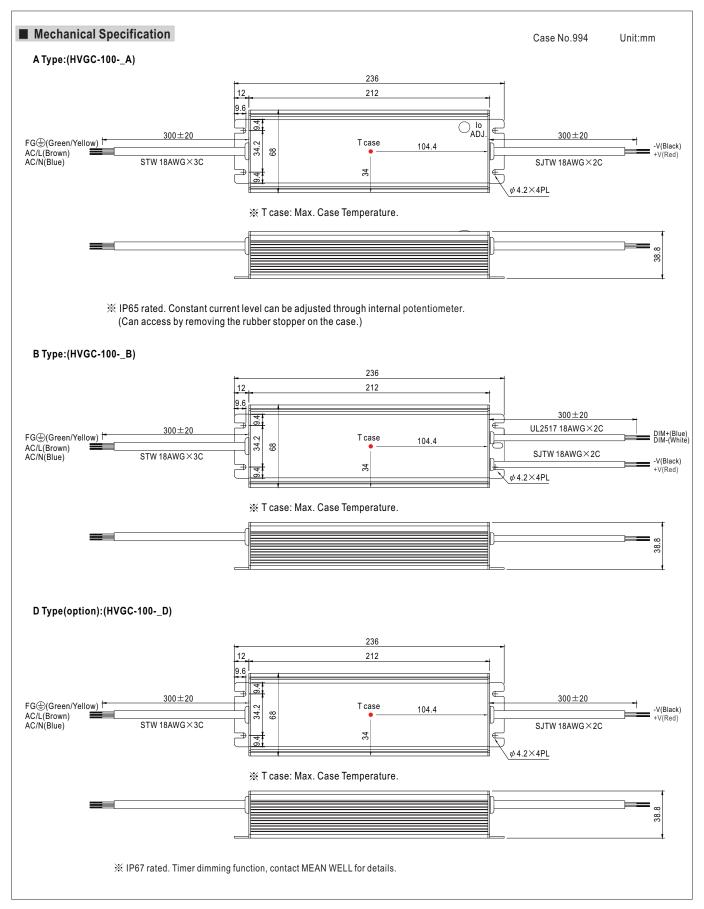
B: IP67 rated. Constant current level adjustable through output cable with 0~10Vdc or 10V PWM signal or resistance.

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

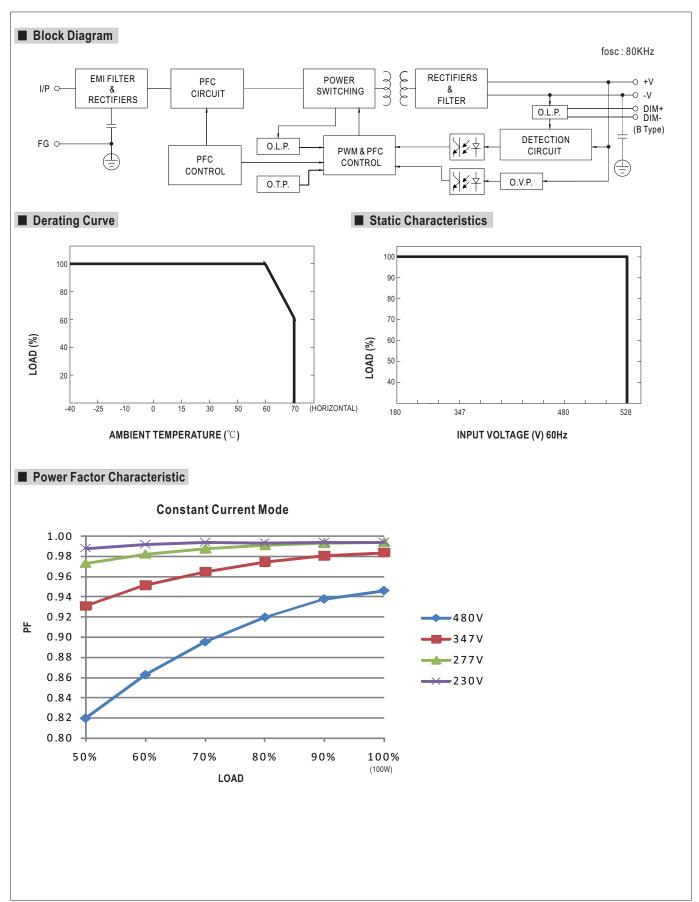
SPECIFICATION

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 AR L RANCE	Can be adjusted by internal potentiometer A type only							
	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.)	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/347VA	AC input ; THD<20% when output loading≧75% at 480VAC input						
INDUT	EFFICIENCY (Typ.)	91%	91%						
INPUT	AC CURRENT (Typ.)	0.38A / 347VAC							
	INRUSH CURRENT (Typ.)	COLD START 25A(twidth=900 μ s measured at 50% Ipeak) at 480VAC							
	MAX. No. of PSUs on 16A	5 units (circuit breaker of type B) / 8 units (circuit breaker of type C) at 480VAC							
	CIRCUIT BREAKER LEAKAGE CURRENT	<0.75mA / 480VAC							
			tion is removed						
	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condit 300 ~ 320V	150 ~ 160V						
PROTECTION	OVER VOLTAGE	Protection type: Shut down o/p voltage with auto-recovery or re							
	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)							
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes							
	SAFETY STANDARDS Note.5	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% RF	1						
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	Ripple & noise are measure Derating may be needed ur Please refer to "DRIVING N Safety and EMC design ref The power supply is consided complete installation, the fir Refer to warranty statement								
	connected to the mains.	e latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently							





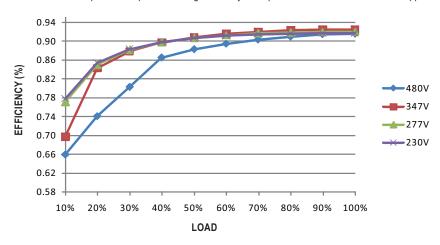






■ EFFICIENCY vs LOAD (HVGC-100-700 Model)

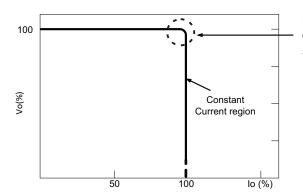
HVGC-100 series possess superior working efficiency that up to 91% can be reached in field applications.



■ 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).



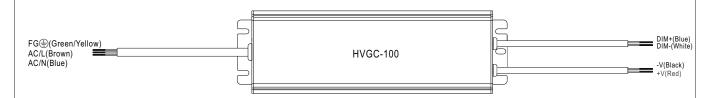
Typical LED power supply I-V curve

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".
- * Reference resistance value for output current adjustment (Typical)
- X Output voltage limit of 50%.

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

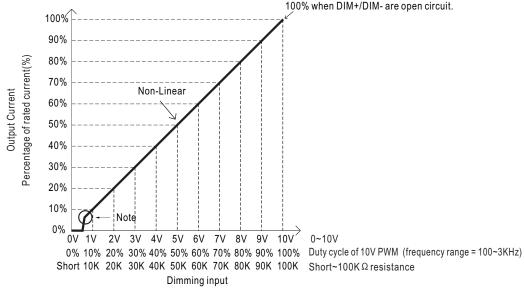
※ 0 ~ 10V dimming function for output current adjustment (Typical)

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%	1

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%

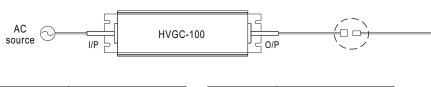
O Dimming Characteristic



■ WATERPROOF CONNECTION

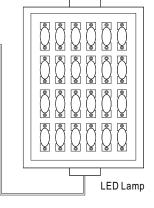
Waterproof connector

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

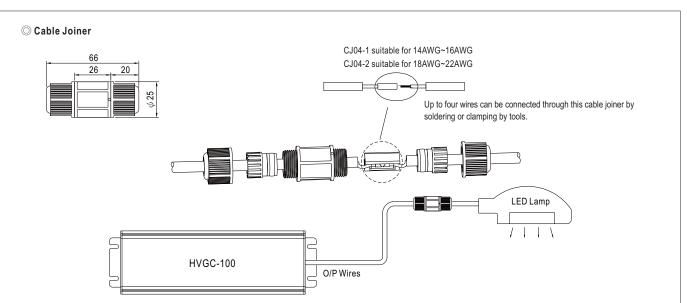


Size	Pin Configuration (Female)						
M12	000	000					
IVI I Z	4-PIN	5-PIN					
	5A/PIN	5A/PIN					
Order No.	M12-04	M12-05					
Suitable Current	10A max.	10A max.					

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







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

