

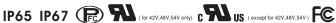


Features:

- Wide input range 180~528VAC
- · Built-in active PFC function
- High efficiency up to 91%
- Protections: Short circuit / Over current / 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
- Class 2 power unit
- 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
- Type "HL" for use in class I, Division 2 hazardous(Classified) location luminaires
- 5 years warranty (Note.9)











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.

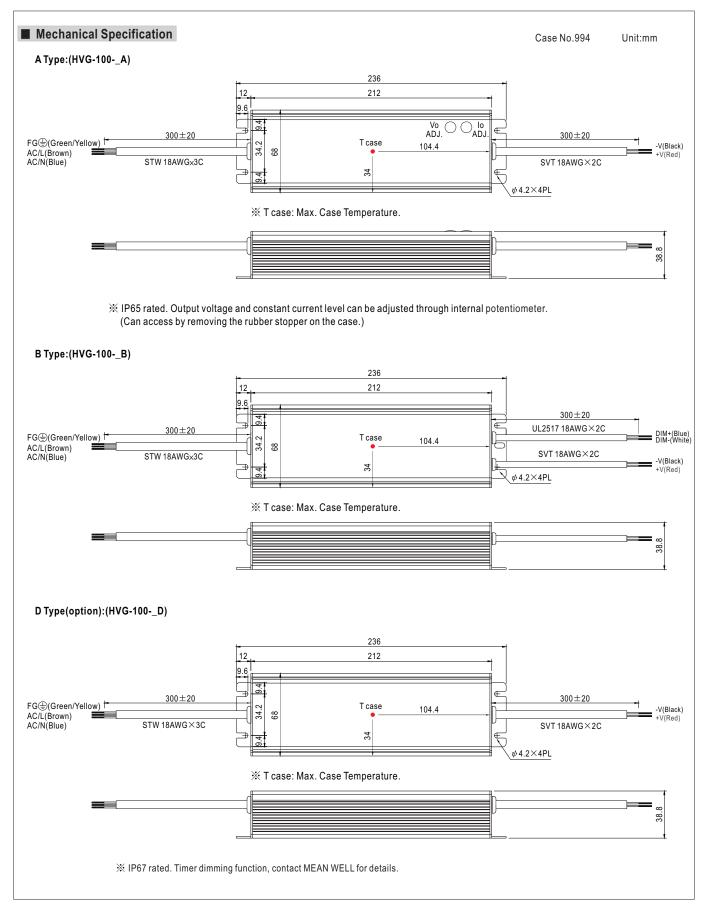
D (option): IP67 rated. Timer dimming function, contact MEAN WELL for details.

SPECIFICATION

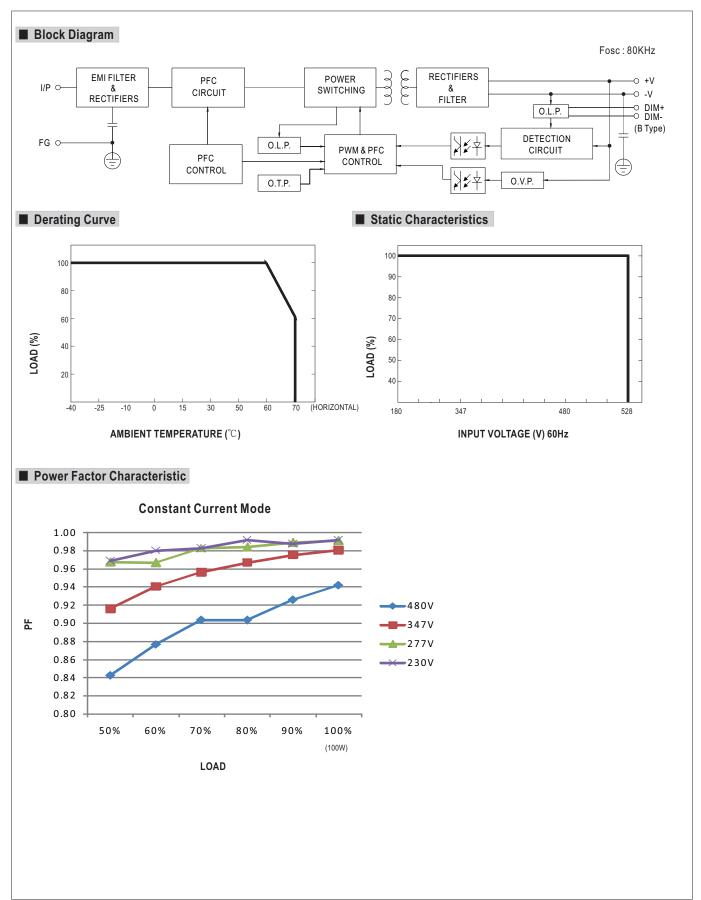
MODEL		HVG-100-15	HVG-100-20	HVG-100-24	HVG-100-30	HVG-100-36	HVG-100-42	HVG-100-48	HVG-100-54			
	DC VOLTAGE	15V	20V	24V	30V	36V	42V	48V	54V			
	CONSTANT CURRENT REGION Note.4	9~15V	10~20V	12~24V	15~30V	18~36V	21~42V	24~48V	27~54V			
	RATED CURRENT	5A	4.8A	4A	3.2A	2.65A	2.28A	2A	1.77A			
	RATED POWER	75W	96W	96W	96W	95.4W	95.76W	96W	95.58W			
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p			
	VOLTAGE ADJ. RANGE Note.6	13.5 ~ 17V	17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	38 ~ 46V	43 ~ 53V	49 ~ 58V			
UTPUT		Can be adjusted	by internal pote	entiometer A type	only							
	CURRENT ADJ. RANGE	2.75 ~ 5A	2.64 ~ 4.8A	2.2 ~ 4A	1.76 ~ 3.2A	1.45 ~ 2.65A	1.25 ~ 2.28A	1.1 ~ 2A	0.97 ~ 1.77			
	VOLTAGE TOLERANCE Note.3	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%			
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%			
	LOAD REGULATION	±1.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%			
	SETUP, RISE TIME	500ms, 80ms	230VAC / 347V	AC / 480VAC at f	ull load; B type	500ms, 280ms	230VAC / 347\	/AC / 480VAC at	95% load			
	HOLD UP TIME (Typ.)	30ms at full load										
	(• • • •	180 ~ 528VAC	254VDC ~ 7									
	FREQUENCY RANGE	47 ~ 63Hz	204700	47700								
	TREQUENCTIVANGE		AC DE>0.09/2	77\/AC DE>0.0	7/347VAC, PF≧	0.03/490//40						
	POWER FACTOR (Typ.)			er Factor Chara		0.93/400 VAC						
		,				d=1) =4 220) (A C	2271/40/2471/4	C in must				
	TOTAL HARMONIC DISTORTION	THD<20% when output loading \ge 50% (\ge 60% only for 15V model) at 230VAC/277VAC/347VAC input THD<20% when output loading \ge 75% at 480VAC input										
NPUT	EEELOUENOV (T.)						00.50/	0.407	040/			
	EFFICIENCY (Typ.)	89%	90%	91%	91%	90.5%	90.5%	91%	91%			
	AC CURRENT (Typ.)	0.38A / 347VAC										
	INRUSH CURRENT (Typ.)	COLD START 25A(twidth=900)4s measured at 50% Ipeak) at 480VAC										
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												
	OVED OUDDENT	95 ~ 108%										
	OVER CURRENT	Protection type: Constant current limiting, recovers automatically after fault condition is removed										
	SHORT CIRCUIT				after fault condi							
ROTECTION		18 ~ 21V	23 ~ 27V	28 ~ 34V	34 ~ 38V	41 ~ 46V	47 ~ 53V	54 ~ 60V	59 ~ 65V			
	OVER VOLTAGE	Protection type	: Shut down o/p	voltage with auto	o-recovery or re-	power on to reco	verv					
	OVER TEMPERATURE				after temperatu		,					
	WORKING TEMP.		efer to "Derating	•	antor tomporata	10 9000 401111						
	WORKING TEMP. WORKING HUMIDITY	20 ~ 95% RH no		Cuive)								
NVIDONMENT		-40 ~ +80°C, 10										
NVIRONMENT	STORAGE TEMP., HUMIDITY											
	TEMP. COEFFICIENT	±0.03%/℃ (0	,									
	VIBRATION				n. each along X, Y							
	SAFETY STANDARDS Note.7	() (,.	,	cept for 42V,48V,	54V), IP65 or IP	67 approved					
AFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75K	/AC I/P-FG:2	KVAC O/P-F0	G:1.5KVAC							
MC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG	i, O/P-FG:100M	Ohms / 500VD	C / 25°C / 70% RI	1						
	EMC EMISSION	Compliance to	EN55015, EN61	000-3-2 Class C	(≧50% load,≧	60% load only fo	r 15V model) ; E	N61000-3-3, FC	C part 15 clas			
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, light industry level (surge 4KV), criteria A										
	MTBF	174.9K hrs min	MIL-HDBK-2	217F (25°C)								
THERS	DIMENSION	236*68*38.8mn	n (L*W*H)									
	PACKING	1.18Kg; 12pcs/	15.2Kg/0.74CUF	Т								
IOTE	Ripple & noise are measure	ed at 20MHz of I tolerance, line r	mentioned are measured at 347VAC input, rated load and 25°C of ambient temperature. at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. erance, line regulation and load regulation.									

- 4. Please refer to "DRIVING METHODS OF LED MODULE".
- 5. Derating may be needed under low input voltages. Please check the static characteristics for more details.
- 6. A type only.7. Safety and EMC design refer to EN60598-1, CNS15233, GB7000.1.
- 8. 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.
- Refer to warranty statement.
- 10. 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.





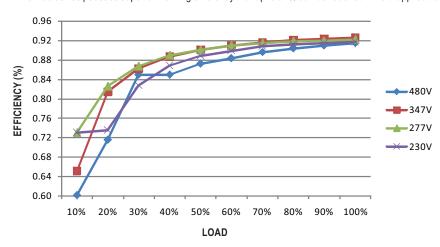






■ EFFICIENCY vs LOAD (48V Model)

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

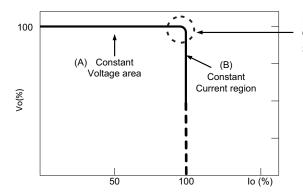


■ DRIVING METHODS OF LED MODULE

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).



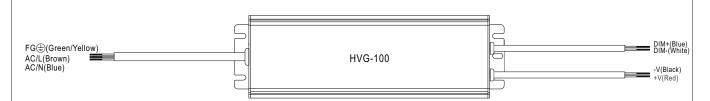
Typical LED power supply I-V curve

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	20K Ω	30K Ω	40K Ω	50K Ω	60K Ω	70K Ω	80KΩ	90KΩ	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%

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%

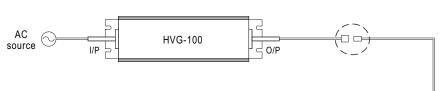
¾ 10V PWM signal for output current adjustment (Typical): Frequency range:100Hz ~ 3KHz

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%

■ WATERPROOF CONNECTION

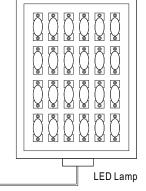
O Waterproof connector

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

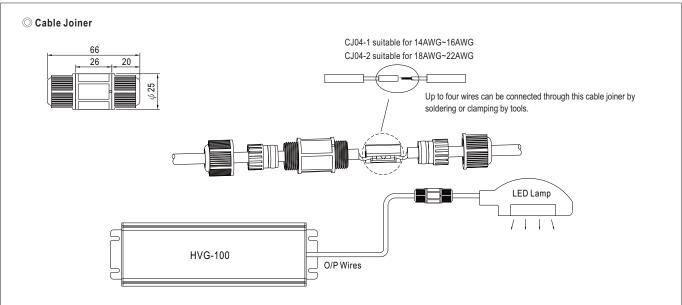


Size	Pin Configura	tion (Female)			
M12	00	000			
IVIIZ	4-PIN	5-PIN			
	5A/PIN	5A/PIN			
Order No.	M12-04	M12-05			
Suitable Current	10A max.	10A max.			

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.

