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■ 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
- 5 years warranty (Note.9)











HVG-100-15A

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.

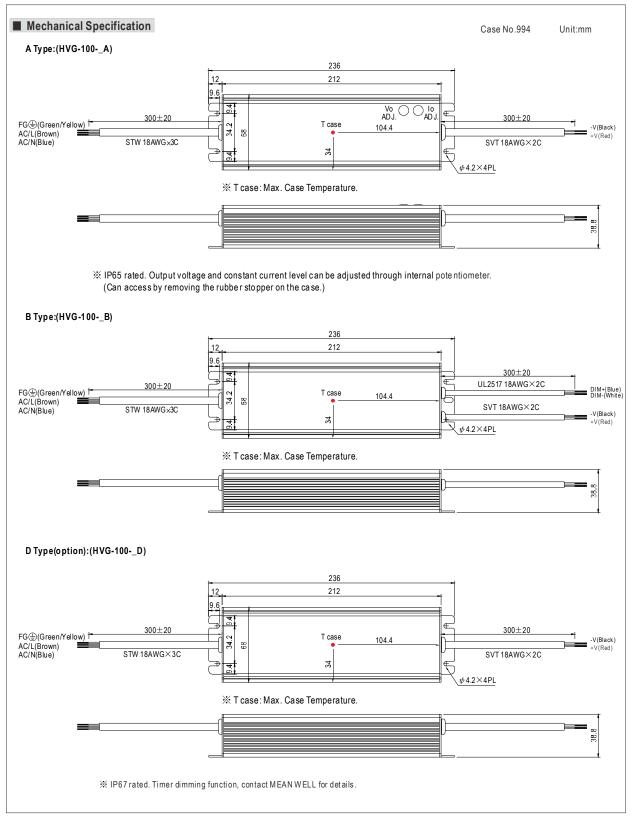
D (option): IP67 rated. Timer dimming function, contact MEAN WELL for details.

SPECIFICATION

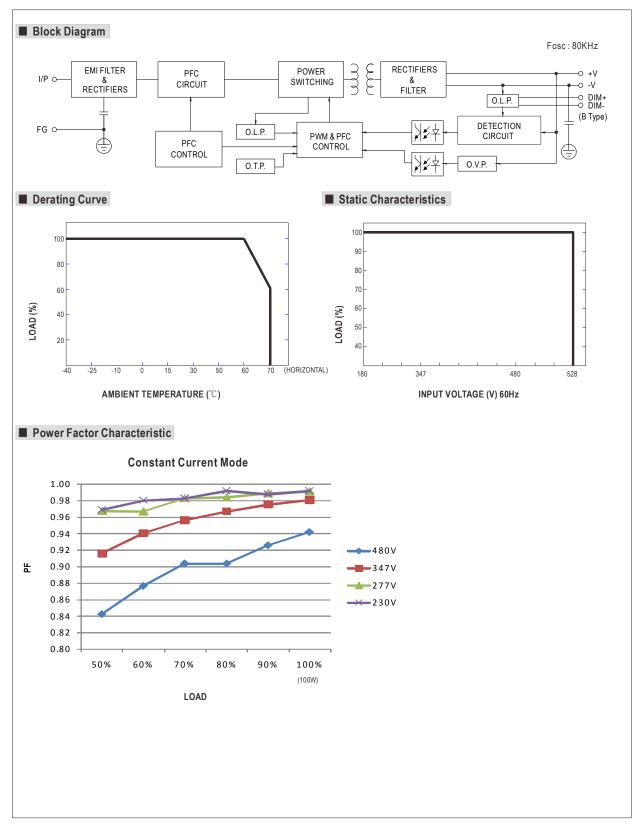
MODEL		HVG-100-15	HVG-100-20	HVG-100-24	HVG-100-30	HVG-100-36	HVG-100-42	HVG-100-48	HVG-100-54			
	DC VOLTAGE	15V	20V	24V	30V	36V	42V	48V	54V			
	CONSTANT CURRENT REGION Note.4	9~15V	10~20V	12~24V	15~30V	18~36V	21~42V	24~48V	27~54V			
	RATED CURRENT	5A	4.8A	4A	3.2A	2.65A	2.28A	2A	1.77A			
	RATED POWER	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		17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	38 ~ 46V	43 ~ 53V	49 ~ 58V			
OUTPUT		Can be adjusted by internal potentiometer 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 ~ 1.77A			
	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				ull load; B type			/AC / 480VAC at				
	HOLD UP TIME (Typ.)		480VAC / 34		un loud , B type	2001110, 2001110	200171070171	7107 100 710 41	00 /0 1000			
	VOLTAGE RANGE Note.5	180 ~ 528VAC	254VDC ~ 7									
	FREQUENCY RANGE	47 ~ 63Hz	234 VDC 1	47 VDC								
	FREQUENCT RANGE		VC DE>0 00/0	77\/AC DE>00	7/347VAC, PF≧	0.03/490//00						
	POWER FACTOR (Typ.)					0.93/400 VAC						
		,		er Factor Charac		-1-1) -+ 020) (4.0)	0771/4 0 /0 471/4	0 in a st				
INPUT	TOTAL HARMONIC DISTORTION				-	del) at 230VAC/	2//VAC/34/VA	C input				
	EFFICIENCY (T.)			≥75% at 480VA	· ·	00.50/	00.50/	0.40/	0.40/			
	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=900µs measured at 50% lpeak) at 480VAC										
	LEAKAGE CURRENT	<0.75mA / 480VAC										
	OVER CURRENT	95~108%										
		Protection type: Constant current limiting, recovers automatically after fault condition is removed										
PROTECTION	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed										
THO I LOTTON	OVER VOLTAGE	18 ~ 21V	23 ~ 27V	28 ~ 34V	34 ~ 38V	41 ~ 46V	47 ~ 53V	54 ~ 60V	59 ~ 65V			
	OVER VOLINGE	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 no	on-condensing									
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C , 10	~ 95% RH									
	TEMP. COEFFICIENT	±0.03%/℃ (0	~50°C)									
	VIBRATION	10 ~ 500Hz, 5G	12min./1cycle,	period for 72min	. each along X, Y	, Z axes						
	SAFETY STANDARDS Note.7	UL8750, CSA C	22.2 No. 250.0-0	08(except for 42\	/,48V, 54V), IP65	or IP67 approve	d					
0.4.553.4.0	WITHSTAND VOLTAGE	I/P-O/P:3.75K\	/AC I/P-FG:2I	KVAC O/P-FG	:0.5KVAC							
SAFETY &	ISOLATION RESISTANCE	I/P-O/P. I/P-FG	. O/P-FG:100M	Ohms / 500VDC	C / 25°C / 70% RF	1						
EMC	EMC EMISSION					60% load only for	15V model); E	N61000-3-3, FC	C part 15 class E			
	EMC IMMUNITY				•	y level (surge 4K			•			
	MTBF		MIL-HDBK-2		,	, (,,					
OTHERS	DIMENSION	236*68*38.8mn		(== -)								
	PACKING	, ,										
NOTE	All parameters NOT special Ripple & noise are measure Tolerance: includes set up Please refer to "DRIVING N Derating may be needed ur A type only. Safety and EMC design refe The power supply is consider.	1.18Kg; 12pcs/15.2Kg/0.74CUFT / mentioned are measured at 347VAC input, rated load and 25°C of ambient temperature. If at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. olerance, line regulation and load regulation. ETHODS OF LED MODULE". Ider low input voltages. Please check the static characteristics for more details. If to EN60598-1, CNS15233, GB7000.1. Ired as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the idequipment 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.





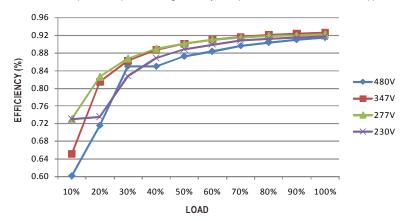






■ EFFICIENCY vs LOAD (48V Model)

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

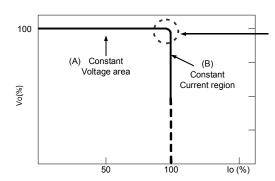


■ DRIVING METHODS OF LED MODULE

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.





- leph Built-in 3 in 1 dimming function, IP 67 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".
- $\ensuremath{\,\times\,} \ensuremath{\,\text{Reference}} \, \text{resistance} \, \text{value} \, \, \text{for output current a djustment (Typical)}$

Resistance value	Single driver	Short	10K Ω	20K Ω	30K Ω	40K Ω	50K Ω	60K Ω	70K Ω	80K Ω	90K Ω	100K Ω	OPEN
	Multiple drivers (N=driver quantity for synchronized dimming operation)	Short	10KΩ/N	20KΩ/N	30KΩ/N	40KΩ/N	50KΩ/N	60KΩ/N	70KΩ/N	80KΩ/N	90KΩ/N	100KΩ/N	
Percentage	e of rated current	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

3% 0 ~ 10V dimming function for output current adjustment (Typical)

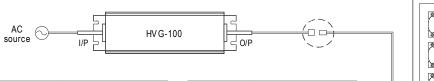
Dimming value	0V	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN	
Percentage of rated current	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%	

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

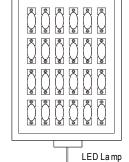
O Waterproof connector

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

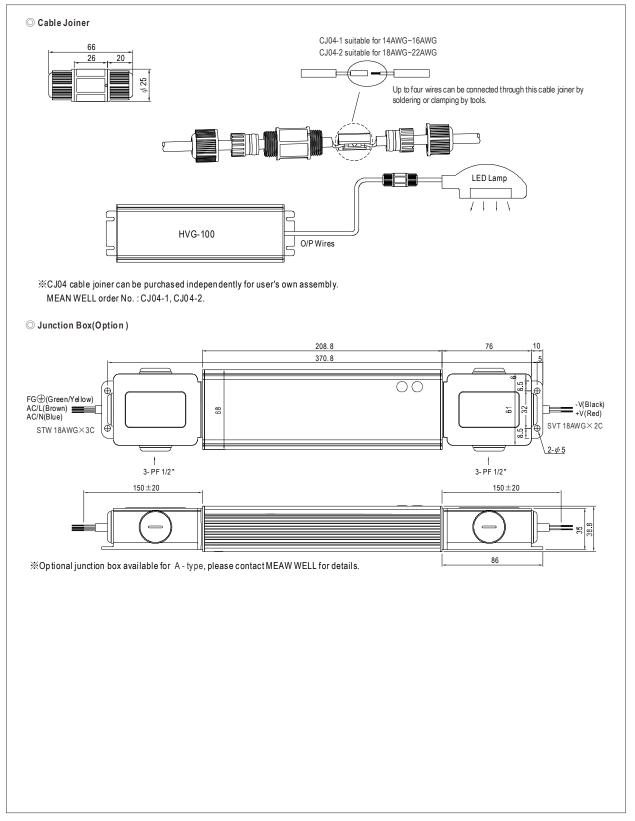


Size	Pin Configura	tion (Female)		
M12	00	000		
IVIIZ	4-PIN	5-PIN		
	5A/PIN	5A/PIN		
Order No.	M12-04	M12-05		
Suitable Current	10A max.	10A max.		

Size	Pin Configuration (Female)
M15	00
IVI 15	2-PIN
	12A/PIN
Order No.	M15-02
Suitable Current	12A max.











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To access the product, <u>click on the green button</u>.

Product	Code	Reference	Product link
AC/DC Power Led Power Series HVG-100 96W Input 180~528 Vac Dimension 236x 68x 38.8 mm Warranty 5 year	HVG10015	HVG-100-15	Buy on EAN
AC/DC Power Led Power Series HVG-100 96W Input 180~528 Vac Dimension 236x 68x 38.8 mm Warranty 5 year	HVG10020	HVG-100-20	Buy on EAN
AC/DC Power Led Power Series HVG-100 96W Input 180~528 Vac Dimension 236x 68x 38.8 mm Warranty 5 year	HVG10024	HVG-100-24	Buy on EAN
AC/DC Power Led Power Series HVG-100 96W Input 180~528 Vac Dimension 236x 68x 38.8 mm Warranty 5 year	HVG10030	HVG-100-30	Buy on EAN
AC/DC Power Led Power Series HVG-100 96W Input 180~528 Vac Dimension 236x 68x 38.8 mm Warranty 5 year	HVG10036	HVG-100-36	Buy on EAN
AC/DC Power Led Power Series HVG-100 96W Input 180~528 Vac Dimension 236x 68x 38.8 mm Warranty 5 year	HVG10042	HVG-100-42	Buy on EAN
AC/DC Power Led Power Series HVG-100 96W Input 180~528 Vac Dimension 236x 68x 38.8 mm Warranty 5 year	HVG10048	HVG-100-48	Buy on EAN
AC/DC Power Led Power Series HVG-100 96W Input 180~528 Vac Dimension 236x 68x 38.8 mm Warranty 5 year	HVG10054	HVG-100-54	Buy on EAN