



■ Features :

- Wide input range 180~480VAC
- 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.8)



IP65 IP67 (for 42V,48V,54V only) c Us (except for 42V,48V,54V)



HVG-100-15 A

A: IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.

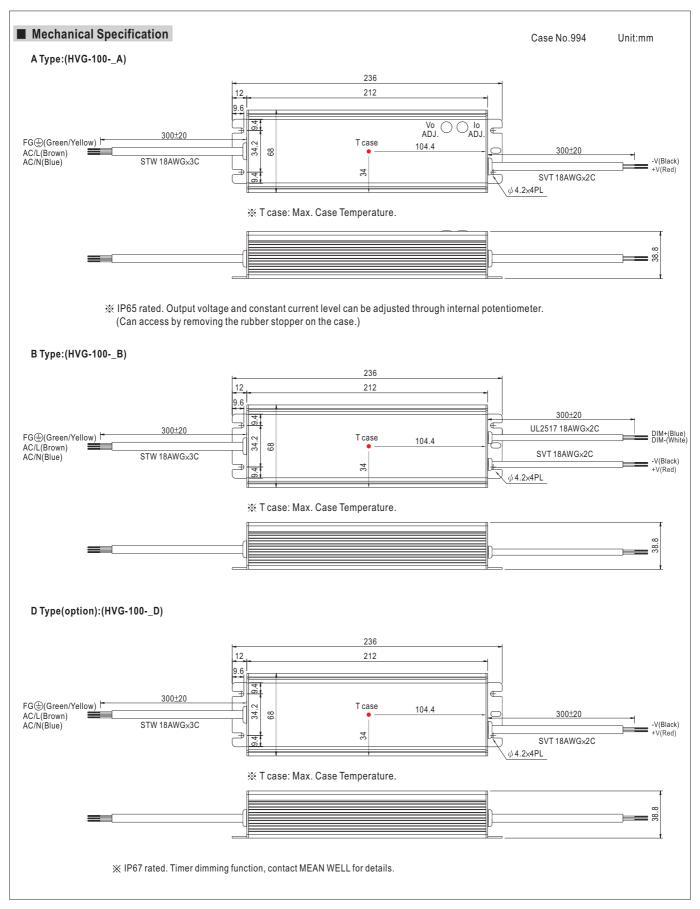
B: IP67 rated. Constant current level adjustable through output cable with 0~10Vdc or 10V PWM signal or resistance.

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

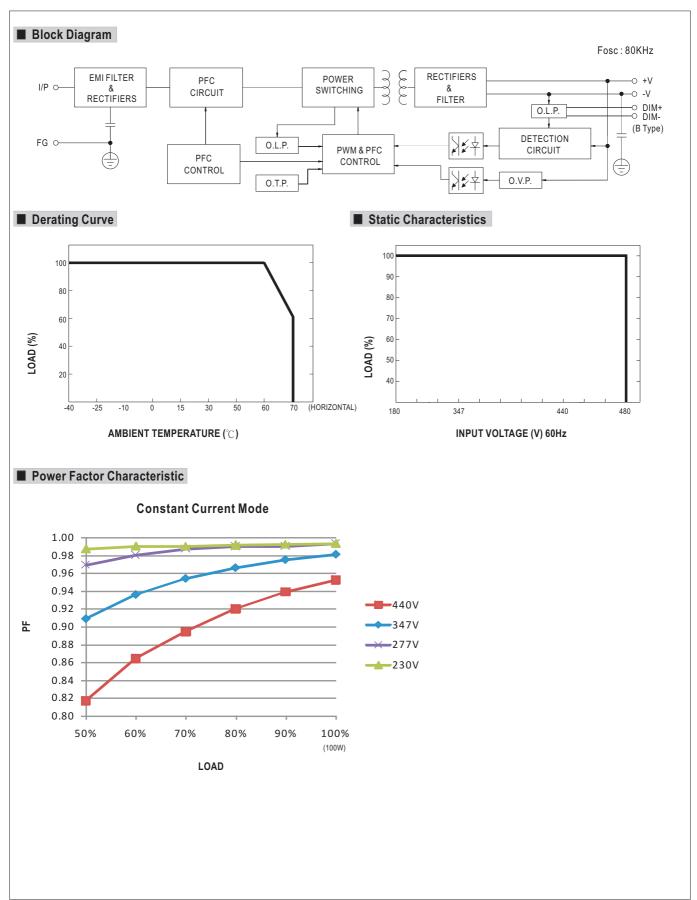
SPECIFICATION

MODEL		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				
	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.5	13.5 ~ 17V	17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	38 ~ 46V	43 ~ 53V	49 ~ 58V				
		Can be adjusted by internal potentiometer A type only											
OUTPUT	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					. 280ms at 95% I	oad 440VAC /						
	HOLD UP TIME (Typ.)	2500ms, 80ms at full load 440VAC / 347VAC; B type 3000ms, 280ms at 95% load 440VAC / 347VAC 30ms at full load 440VAC / 347VAC											
	VOLTAGE RANGE Note.4	180 ~ 480VAC	254VDC ~ 6										
	FREQUENCY RANGE	47 ~ 63Hz	204100	773720									
	TREGOLITOT RATIOE	$PF \ge 0.98/230VAC$, $PF \ge 0.98/277VAC$, $PF \ge 0.97/347VAC$, $PF \ge 0.94/440VAC$ ($PF \ge 0.93/440VAC$ only for 15V model)											
	POWER FACTOR (Typ.)	$PF \ge 0.98/230VAC$, $PF \ge 0.98/277VAC$, $PF \ge 0.97/347VAC$, $PF \ge 0.94/440VAC$ ($PF \ge 0.93/440VAC$ only for 15V model) at full load (Please refer to "Power Factor Characteristic" curve)											
INPUT	EFFICIENCY (Typ.)	89%	90%	91%	91%	90.5%	90.5%	91%	91%				
					9170	90.5%	90.5%	9170	9170				
	AC CURRENT (Typ.)	0.32A / 347VAC											
	INRUSH CURRENT (Typ.)	COLD START 25A(twidth=385µs measured at 50% Ipeak) at 440VAC											
	LEAKAGE CURRENT <0.75mA/440VAC												
	OVER CURRENT	95 ~ 108%											
		Protection type: Constant current limiting, recovers automatically after fault condition is removed Constant current limiting, recovers automatically after fault condition is removed											
	SHORT CIRCUIT							I					
PROTECTION	OVER VOLTAGE	18 ~ 21V	23 ~ 27V	28 ~ 34V	34 ~ 38V	41 ~ 46V	47 ~ 53V	54 ~ 60V	59 ~ 65V				
		Protection type: Shut down o/p voltage with auto-recovery or re-power on to recovery											
	OVER TEMPERATURE	100°C ±10°C (RTH2)											
	OVER TEMIT ERRATORE	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, p	period for 72min	. each along X, Y	, Z axes							
	SAFETY STANDARDS Note.6	UL8750, CSA C	22.2 No. 250.0-0	08(except for 42)	V,48V, 54V), IP65	or IP67 approve	ed						
	WITHSTAND VOLTAGE	I/P-O/P:3.75K	/AC I/P-FG:2	KVAC O/P-FG	G:0.5KVAC								
SAFETY &	ISOLATION RESISTANCE	I/P-O/P. I/P-FG	i. O/P-FG:100M	Ohms / 500VD0	 C / 25°C / 70% RF	1							
EMC	EMC EMISSION	-			(≥50% load,≥		r 15V model) : E	N61000-3-3. FC	C part 15 class				
	EMC IMMUNITY	-			•	-			-				
OTHERS	MTBF	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, light industry level (surge 4KV), criteria A 174.9K hrs min. MIL-HDBK-217F (25°C)											
	DIMENSION	236*68*38.8mm (L*W*H)											
	PACKING		15.2Kg/0.74CUF	Т									
NOTE	All parameters NOT special Ripple & noise are measure Tolerance: includes set up Derating may be needed ur A type only. Safety and EMC design ref The power supply is considence of the firm of t	lly mentioned ar ed at 20MHz of I tolerance, line r nder low input vo er to EN60598-1 ered as a comp nal equipment m	e measured at 3 pandwidth by us egulation and lo oltages. Please , CNS15233, Gonent that will be	847VAC input, rasing a 12" twiste ad regulation. check the static B7000.1.	d pair-wire terming characteristics for the components of the comp	nated with a 0.1 or more details.	uf & 47uf paralle	·	affected by t				





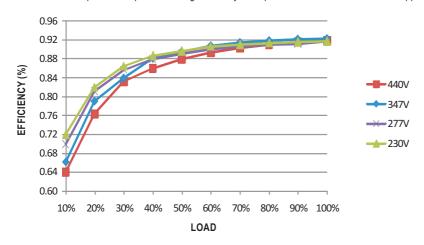






■ EFFICIENCY vs LOAD (48V Model)

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

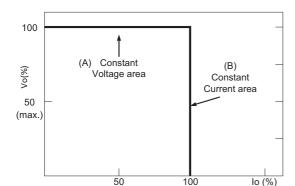


■ DRIVING METHODS OF LED MODULE

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.

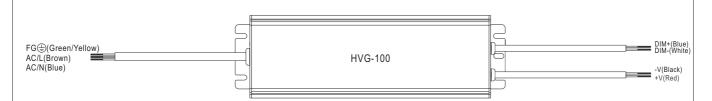
Mean Well's LED power supply with CV+ CC characteristic can be operated at both CV mode (with LED driver, at area (A) and CC mode (direct drive, at area (B).



Typical LED power supply I-V curve



■ DIMMING OPERATION (for B-type only)



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

Rasis	stance	Single driver	10K Ω	20K Ω	30K Ω	40K Ω	50K Ω	60K Ω	70K Ω	80K Ω	90K Ω	100K Ω	OPEN
value		Multiple drivers (N=driver quantity for synchronized dimming operation)	10KΩ/N	20K Ω /N	30KΩ/N	40KΩ/N	50KΩ/N	60KΩ/N	70K Ω/ N	80K Ω/N	90KΩ/N	100KΩ/N	
Perc	entage	of rated current	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%

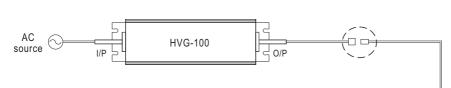
* 10V PWM signal for output current adjustment (Typical): Frequency range:100Hz ~ 3KHz

Duty value	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

■ WATERPROOF CONNECTION

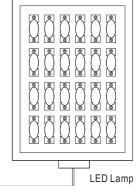
Waterproof connector

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

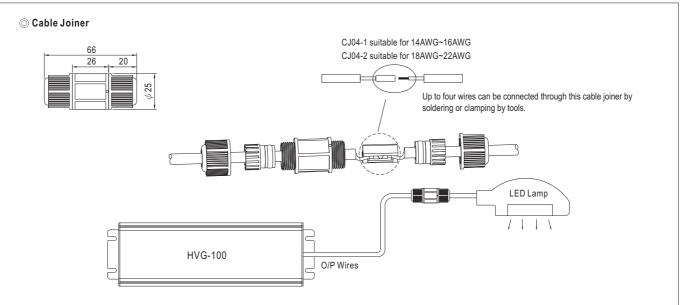


Size	Pin Configuration (Female					
M12	00	000				
IVIIZ	4-PIN	5-PIN				
	5A/PIN	5A/PIN				
Order No.	M12-04	M12-05				
Suitable Current	10A max.	10A max.				

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







Junction Box(Option)

