



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
- * Type "HL" for use in class I, Division 2 hazardous(Classified) location luminaires
- 5 years warranty (Note.7)





HVGC-150-350 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.

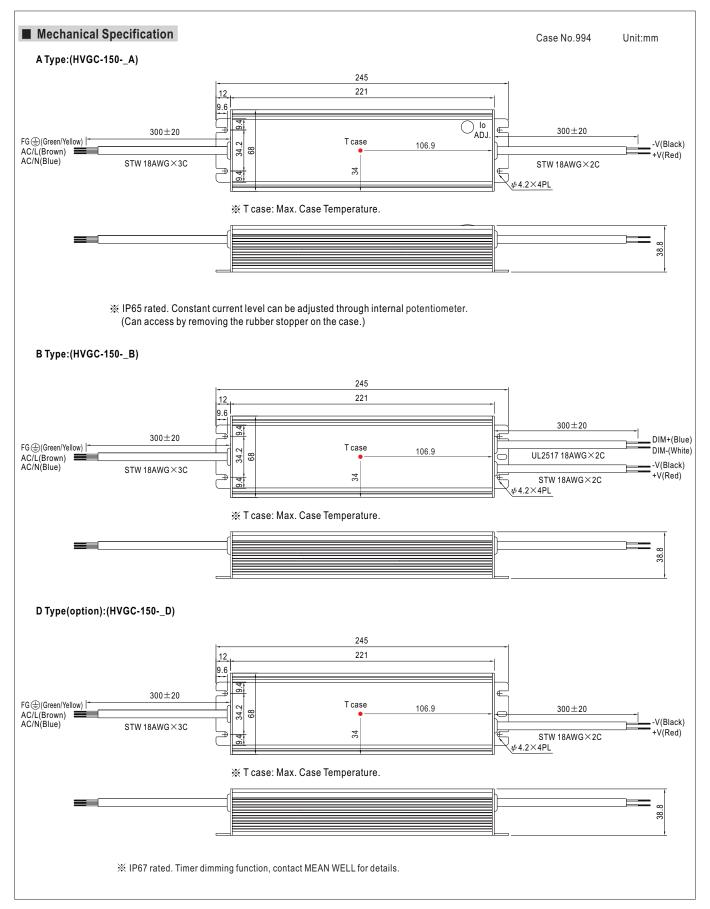
D (option): IP67 rated. Timer dimming function, contact MEAN WELL for details.

SPECIFICATION

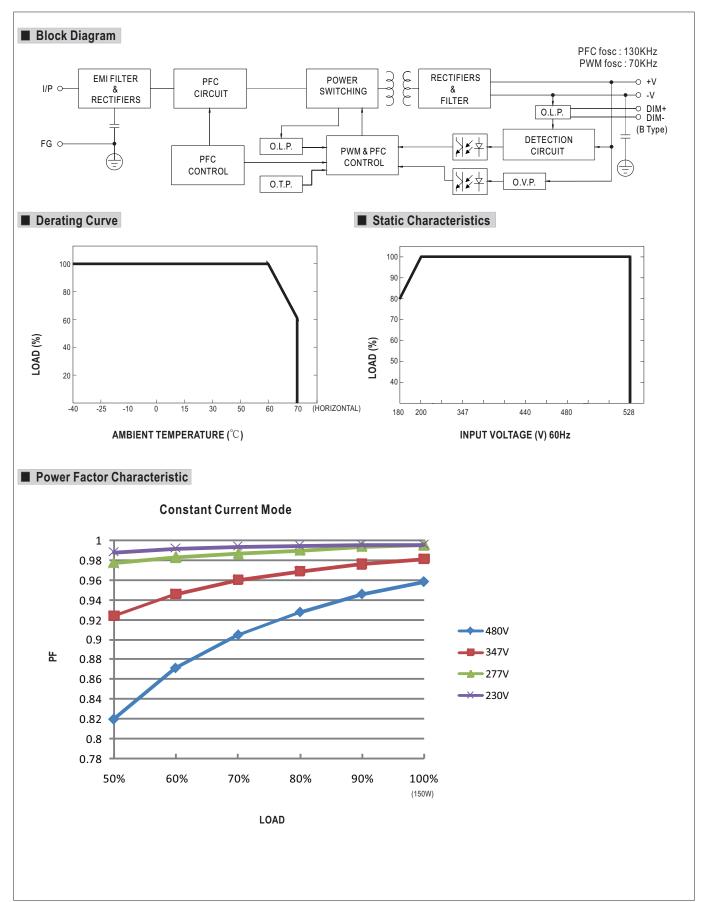
RATEO CURRENT 350mA 500mA 700mA 1050mA 1400mA	MODEL		HVGC-150-350	HVGC-150-500	HVGC-150-700	HVGC-150-1050	HVGC-150-1400						
OUTPUT VOLTAGE RANGE Note.2 42 - 428V 30 - 300V 21 - 215V 15 - 143V 12 - 107V		RATED CURRENT	350mA	500mA	700mA	1050mA	1400mA						
NUMBER 149.8W 150.W 150.5W 150.15W 149.8W 149.8W 150.15W 150.1		CURRENT ACCURACY	±5.0%										
NPUE & NOISE (max.) Note.2 2Vp-p		OUTPUT VOLTAGE RANGE Note.4	42 ~ 428V	30 ~ 300V	21 ~ 215V	15 ~ 143V	12 ~ 107V						
CURRENT ADJ. RANGE Can be adjusted by internal potentiometer A type only 210 - 350mA 300 - 500mA 420 - 700mA 630 - 1050mA 840 - 1400mA 840 - 1400mA 850 - 1050mA 840 - 1400mA 850		RATED POWER	149.8W	150W	150.5W	150.15W	149.8W						
CURRENT ADJ. RANGE 210 ~ 350mA 300 ~ 500mA 420 ~ 700mA 630 ~ 1050mA 840 ~ 1400mA	OUTPUT	RIPPLE & NOISE (max.) Note.2	2Vp-p	1.5Vp-p	1Vp-p	0.7Vp-p	0.5Vp-p						
210 - 350mA 300 - 500mA 420 - 700mA 630 - 1050mA 840 - 1400mA		OUDDENT AD L DANGE											
HOLD UP TIME (Typ.)		CURRENT ADJ. RANGE	210 ~ 350mA	300 ~ 500mA	420 ~ 700mA	630 ~ 1050mA	840 ~ 1400mA						
VOLTAGE RANGE		SETUP, RISE TIME	500ms, 150ms /230Vac 400	Oms,150ms/347VAC/480VAC	at full load; B type 500ms, 15	50ms/230Vac 500ms,150ms	/347VAC/480Vac at 95% load						
FREQUENCY RANGE		HOLD UP TIME (Typ.)	18ms at full load 480VA	AC / 347VAC									
POWER FACTOR (Typ.) PF≥0.98/230VAC, PF≥0.97/27TVAC, PF≥0.95/347VAC, PF≥0.93/480VAC at full load (Please refer to "Power Factor Characteristic" curve)		VOLTAGE RANGE Note.3	180 ~ 528VAC 254V	DC ~ 747VDC									
TOTAL HARMONIC DISTORTION		FREQUENCY RANGE	47 ~ 63Hz										
INPUT AC CURRENT (Typ.) 91% 91% 91% 91% 90% 90% 90% 90% AC CURRENT (Typ.) 0.5A/347VAC 0.38A/480VAC		POWER FACTOR (Typ.)	PF≥0.98/230VAC, PF≥0.9	97/277VAC, PF≧0.95/347VA	AC, PF≧0.93/480VAC at full	load (Please refer to "Power	Factor Characteristic" curve)						
AC CURRENT (Typ.) 0.5A/34TVAC 0.38A/480VAC		TOTAL HARMONIC DISTORTION	THD<20% when output lo	ading ≥ 50% at 230VAC/2	77VAC/347VAC input; TH	D<20% when output loadii	ng ≥ 75% at 480VAC input						
AC CURRENT (Typ.) 0.5A/347VAC 0.38A/ 480VAC INRUSH CURRENT (Typ.) COLD START 35A(twidm=790)rs measured at 50% peak) at 480VAC	INDUT	EFFICIENCY (Typ.)	91%	91%	91%	90%	90%						
MAX. No. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT <a \$="" (0="" (25°c)="" (l*w*h)="" (surge="" (≥50%="" +80°c,="" -40="" 0.78cuft<="" 1.24kg;="" 10="" 12min.="" 12pcs="" 15="" 15.9kg="" 179.5k="" 1cycle,="" 20="" 245*68*38.8mm="" 25°c="" 2kvac="" 4kv),="" 500hz,="" 500vdc="" 5g="" 60°c)="" 70%="" 72min.="" 95%="" a="" along="" axes="" b="" c="" class="" coefficient="" compliance="" criteria="" curve")="" derating="" dimension="" each="" emc="" emission="" en55015,="" en61000-3-2="" en61000-3-3,="" en61000-4-2,3,4,5,6,8,11,="" en61547,="" fcc="" for="" href="https://doi.org/10.1001/j.jc/j.jc/j.jc/j.jc/j.jc/j.jc/j.jc/j.j</th><th>INPUT</th><th>AC CURRENT (Typ.)</th><th>0.5A / 347VAC 0.38</th><th>A / 480VAC</th><th></th><th></th><th></th></tr><tr><th> CIRCUIT BREAKER 4 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 480VAC </th><th></th><th>INRUSH CURRENT (Typ.)</th><th>COLD START 35A(twidth=7</th><th></th></tr><tr><th>HORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE OVER TEMPERATURE OVER INJUSTICAL SHAPE AND SHAPE</th><th></th><th></th><th>4 units (circuit breaker of</th><th>;</th><th></th></tr><tr><th> All parameters DVER VOLTAGE 430 ~ 460V 316 ~ 346V 226 ~ 247V 151 ~ 165V 113 ~ 124V </th><th></th><th>LEAKAGE CURRENT</th><th colspan=8><0.75mA / 480VAC</th></tr><tr><th>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 TEMP40 ~ +70°C (Refer to " hrs="" humidity="" i="" immunity="" industry="" isolation="" j="" level="" light="" load);="" mil-hdbk-21fr="" min.="" mtbf="" non-condensing="" o="" ohms="" p,="" p-fg,="" p-fg:1.5kvac="" p-fg:100m="" p-fg;="" p-o="" p;="" packing="" part="" period="" resistance="" rh="" safety="" storage="" temp.="" temp.,="" th="" to="" vibration="" voltage="" withstand="" working="" x,="" y,="" z="" ~="" ±0.03%°c=""><th></th><th>SHORT CIRCUIT</th><th colspan="9">Constant current limiting, recovers automatically after fault condition is removed</th>		SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed										
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 ~ 60 °C) VIBRATION 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes SAFETY & WITHSTAND VOLTAGE WITHSTAND VOLTAGE I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC 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 MTBF 179.5K hrs min. MIL-HDBK-217F (25 °C) DIMENSION 245 *68 *38.8mm (L*W*H) PACKING 1. All parameters NOT specially mentioned are measured at 347VAC input rated load and 25 °C of ambient temperature.			430 ~ 460V	316~346V	226 ~ 247V	151 ~ 165V	113 ~ 124V						
WORKING TEMP. -40 ~ +70 °C (Refer to "Derating Curve")	PROTECTION	OVER VOLTAGE											
WORKING HUMIDITY 20 ~ 95% RH non-condensing		OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down										
ENVIRONMENT STORAGE TEMP., HUMIDITY 20 ~ 95% RH non-condensing		WORKING TEMP.	-40 ~ +70°C (Refer to "Derating Curve")										
TEMP. COEFFICIENT		WORKING HUMIDITY	20 ~ 95% RH non-condensing										
VIBRATION 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes SAFETY STANDARDS Note.5 UL8750(type"HL"), CSA C22.2 No. 250.0-08, TUV EN61347-1, EN61347-2-13, IP65 or IP67 approved WITHSTAND VOLTAGE I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC 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 MTBF 179.5K hrs min. MIL-HDBK-217F (25°C) DIMENSION 245°68*38.8mm (L*W*H) PACKING 1.24Kg; 12pcs/15.9Kg/0.78CUFT 1. All parameters NOT specially mentioned are measured at 347VAC input, rated load and 25°C of ambient temperature	ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH										
SAFETY STANDARDS Note.5 UL8750(type"HL"), CSA C22.2 No. 250.0-08, TUV EN61347-1, EN61347-2-13, IP65 or IP67 approved		TEMP. COEFFICIENT	±0.03%/°C (0~60°C)										
WITHSTAND VOLTAGE		VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes										
SOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH		SAFETY STANDARDS Note.5											
SOLATION RESISTANCE		WITHSTAND VOLTAGE											
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 179.5K hrs min. MIL-HDBK-217F (25°C) DIMENSION 245*68*38.8mm (L*W*H) PACKING 1.24Kg; 12pcs/15.9Kg/0.78CUFT 1. All parameters NOT specially mentioned are measured at 347VAC input, rated load and 25°C of ambient temperature.		ISOLATION RESISTANCE											
EMC IMMUNITY Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, light industry level (surge 4KV), criteria A MTBF 179.5K hrs min. MIL-HDBK-217F (25°C) DIMENSION 245*68*38.8mm (L*W*H) PACKING 1.24Kg; 12pcs/15.9Kg/0.78CUFT	EMC	EMC EMISSION											
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PACKING 1.24Kg; 12pcs/15.9Kg/0.78CUFT 1. All parameters NOT specially mentioned are measured at 347VAC input, rated load and 25°C of ambient temperature			•										
PACKING 1.24Kg; 12pcs/15.9Kg/0.78CUFT 1. All parameters NOT specially mentioned are measured at 347VAC input, rated load and 25°C of ambient temperature	OTHERS	DIMENSION											
1 All parameters NOT specially mentioned are measured at 347VAC input, rated load and 25°C of ambient temperature													
	NOTE		lly mentioned are measur	ed at 347VAC input, rated	I load and 25°C of ambier	nt temperature.							

- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf parallel capacitor.
- 3. Derating may be needed under low input voltages. Please check the static characteristics for more details. 4. Please refer to "DRIVING METHODS OF LED MODULE" and "DIMMING OPERATION".
- 5. Safety and EMC design refer to EN60598-1, CNS15233, GB7000.1.
- 6. 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.
- 8. 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.





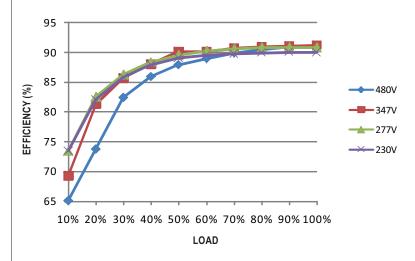






■ EFFICIENCY vs LOAD (HVGC-150-350 Model)

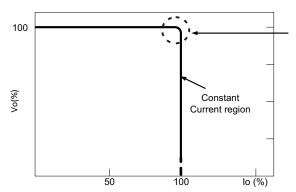
HVGC-150 series possess superior working efficiency that up to 91% can be reached in field applications.



■ 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).



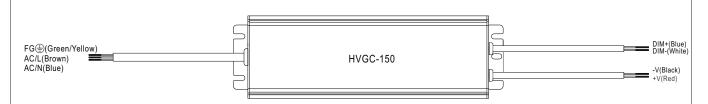
Typical LED power supply I-V curve

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



- ※ 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)
- Output voltage limit of 50%.

Resistance	Single driver	Short	10K Ω	20ΚΩ	30K Ω	$40 \text{K}\Omega$	50K Ω	60KΩ	70K Ω	80K Ω	90K Ω	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%

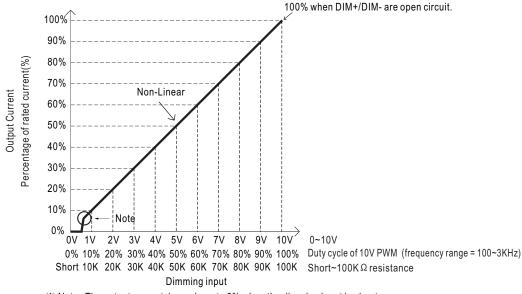
※ 0 ~ 10V dimming function for output current adjustment (Typical)

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%	

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

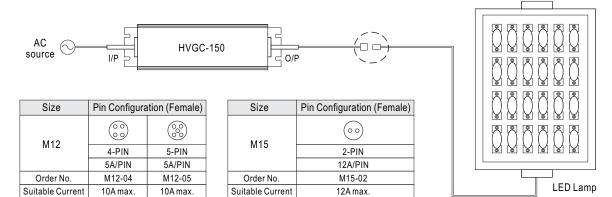


% Note : The output current drops down to 0% when the dimming input is about $6K\,\Omega$ or 0.6Vdc, or 10V PWM signal with 6% duty cycle.

■ WATERPROOF CONNECTION

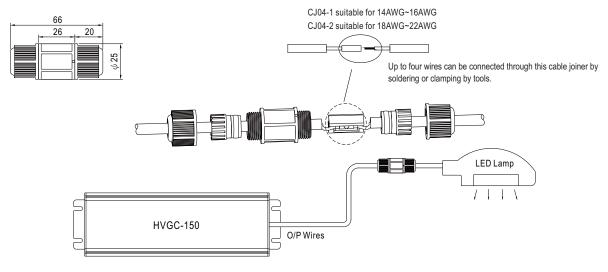
Waterproof connector

Waterproof connector can be assembled on the output cable of HVGC-150 to operate in dry/wet/damp or outdoor environment.









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

