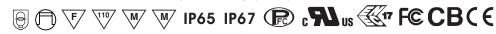




Features:

- Constant current design
- Wide input range 180~528VAC
- Built-in active PFC function
- High efficiency up to 90.5%
- 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-65-350 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.

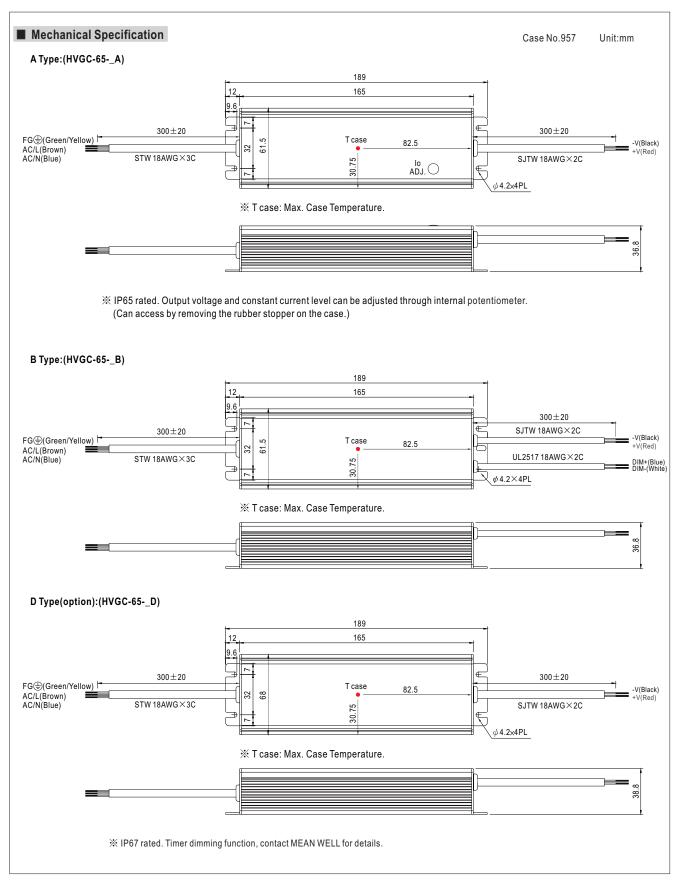
D (option): IP67 rated. Timer dimming function, contact MEAN WELL for details.

SPECIFICATION

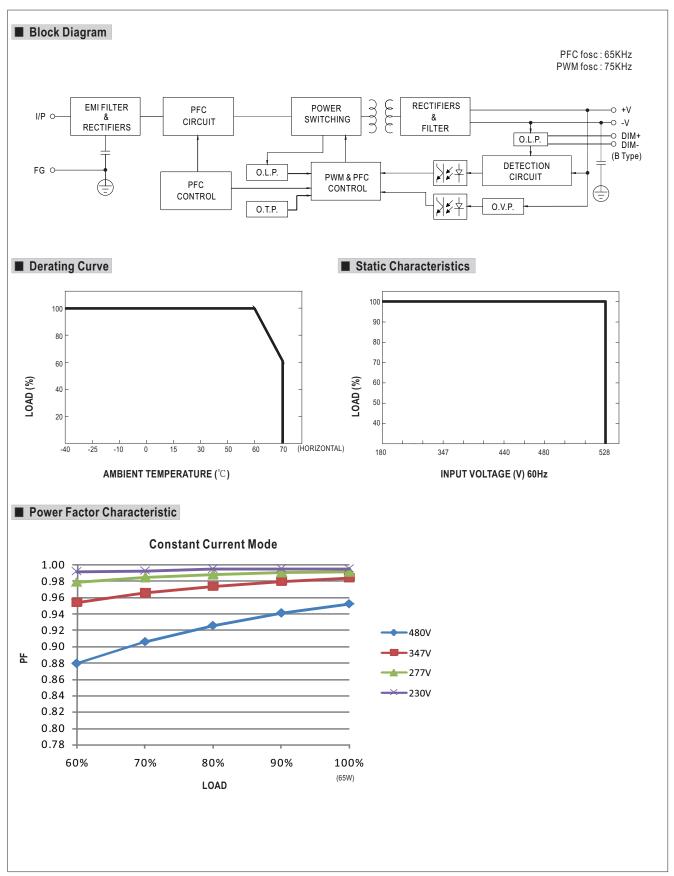
MODEL		HVGC-65-350	HVGC-65-500	HVGC-65-700	HVGC-65-1050						
	RATED CURRENT	350mA	500mA	700mA	1050mA						
	CURRENT ACCURACY	±5.0%									
	OUTPUT VOLTAGE RANGE Note.4	18 ~ 186V	13 ~ 130V	9 ~ 93V	6 ~ 62V						
	RATED POWER	65.1W	65W	65.1W	65.1W						
	RIPPLE & NOISE (max.) Note.2	1Vp-p	0.7Vp-p	0.5Vp-p	0.3Vp-p						
UTPUT	OUDDENT AD L DANGE	Can be adjusted by internal potentiometer A type only									
	CURRENT ADJ. RANGE	210 ~ 350mA	300 ~ 500mA	420 ~ 700mA	630 ~ 1050mA						
	CETUD DICE TIME	500ms, 80ms / 230VAC 400ms, 80ms / 347VAC / 480VAC at full load									
	SETUP, RISE TIME	B type 500ms, 80ms / 230VAC 500ms, 80ms / 347VAC / 480VAC at 95% load									
	HOLD UP TIME (Typ.)	16ms / 347VAC 30ms / 480VAC at full load									
	VOLTAGE RANGE Note.3	180 ~ 528VAC 254VDC ~ 7	747VDC								
	FREQUENCY RANGE	47 ~ 63Hz									
	POWER FACTOR (Typ.)	PF≥0.98/230VAC, PF≥0.97/277	VAC, PF≥0.95/347VAC, PF≥0.9	3/480VAC at full load (Please re	efer to "Power Factor Characteristic" cu						
	TOTAL HARMONIC DISTORTION	Total harmonic distortion will be lower than 20% when output loading is 60% or higher at 230VAC / 277VAC / 347VAC									
	TOTAL HARMONIC DISTORTION	Total harmonic distortion will be lower than 20% when output loading is 75% or higher at 480VAC									
NPUT	EFFICIENCY (Typ.)	90%	90.5%	90.5%	90%						
	AC CURRENT (Typ.)	0.22A / 347VAC									
	INRUSH CURRENT (Typ.)	COLD START 25A(twidth=420µs measured at 50% Ipeak) at 480VAC									
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	12 units (circuit breaker of type B) / 20 units (circuit breaker of type C) at 480VAC									
	LEAKAGE CURRENT	<0.75mA / 480VAC									
	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed									
DOTEOTION	01/50 1/01 74 05	195 ~ 210V	137 ~ 150V	98 ~ 107V	65~72V						
ROTECTION	OVER VOLTAGE	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 non-condensing									
NVIRONMENT	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 STANDARDS Note.5										
SAFETY &	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	EMC EMISSION	Compliance to EN55015, EN61000-3-2 Class C (≧60% 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	202.7K hrs min. MIL-HDBK-217F (25°C)									
OTHERS	DIMENSION	189*61.5*36.8mm (L*W*H)									
	PACKING	0.77Kg; 18pcs/14.9Kg/0.89CUFT									
NOTE	Ripple & noise are measure Derating may be needed ur Please refer to "DRIVING Notes and EMC design refered."	ed at 20MHz of bandwidth by us nder low input voltages. Please METHODS OF LED MODULE" er to EN60598-1, CNS15233, G	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 & 2.2uf parallel capacitor. by Industrial Please check the static characteristics for more details. THODS OF LED MODULE" and "DIMMING OPERATION". Control Englishment Service S								

- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies. (as available on http://www.meanwell.com)
- 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





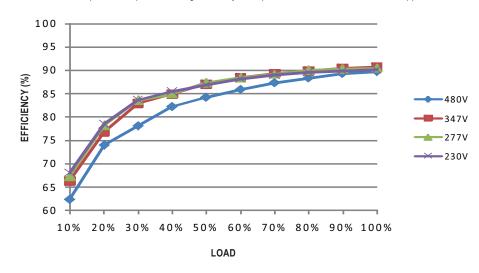




MEAN WELL

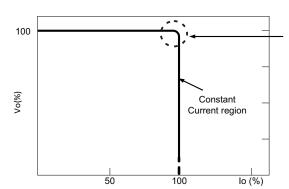
■ EFFICIENCY vs LOAD (HVGC-65-700 Model)

HVGC-65 series possess superior working efficiency that up to 90.5% 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, at area).



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)
- ※ Output voltage limit of 50%.

Resistance	Single driver	Short	10K Ω	20ΚΩ	30K Ω	40K Ω	50K Ω	60KΩ	70K Ω	80KΩ	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%

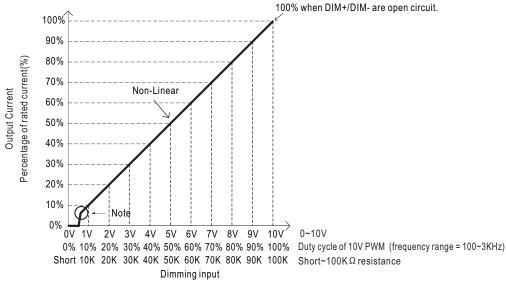
3% 0 ~ 10V dimming function for output current adjustment (Typical)

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%

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

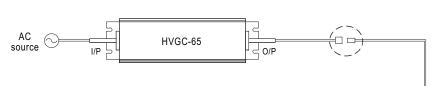


※ Note: The output current drops down to 0% when the dimming input is about 6K Ω or 0.6Vdc, or 10V PWM signal with 6% duty cycle.

■ WATERPROOF CONNECTION

O Waterproof connector

Waterproof connector can be assembled on the output cable of HVGC-65 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					
IVITO	2-PIN					
	12A/PIN					
Order No.	M15-02					
Suitable Current	12A max.					

