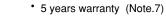




### ■ Features :

- 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







HVGC-65-350 A: IP65 rated. Constant current level can be adjusted through internal potentiometer.

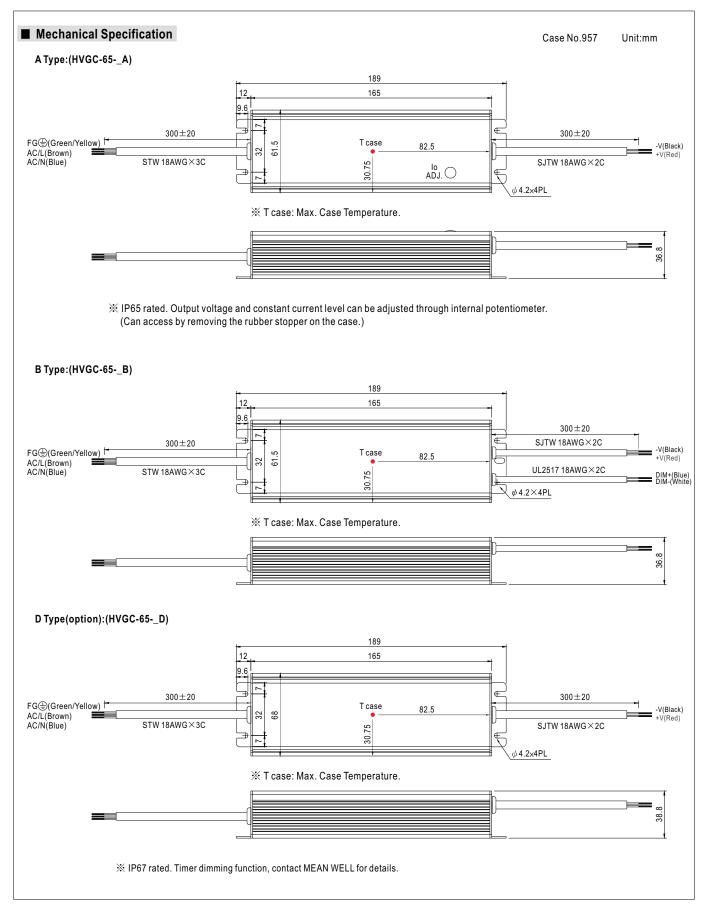
B: IP67 rated. Constant current level adjustable through output cable with 0~10Vdc or 10V PWM signal or resistance.

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

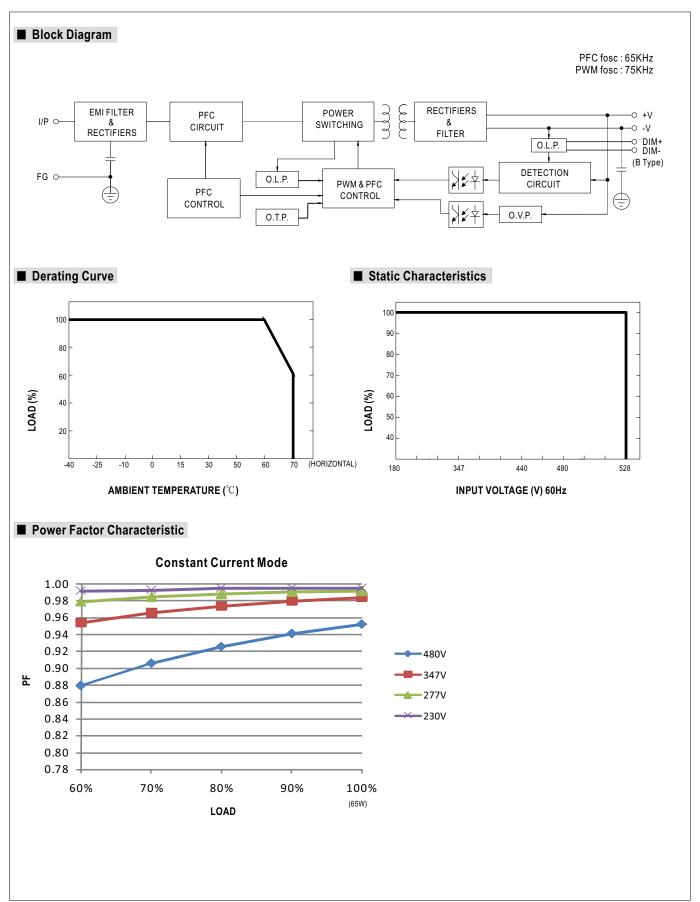
### **SPECIFICATION**

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						
OUTPUT	, ,	Can be adjusted by internal potentiometer A type only									
	CURRENT ADJ. RANGE	210 ~ 350mA	300 ~ 500mA	420 ~ 700mA	630 ~ 1050mA						
		500ms. 80ms / 230VAC 400			1000 10001111						
	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									
	( ) . ,		~ 747VDC								
	FREQUENCY RANGE	47 ~ 63Hz									
	POWER FACTOR (Typ.)	PF≥0.98/230VAC, PF≥0.97/277VAC, PF≥0.95/347VAC, PF≥0.93/480VAC at full load (Please refer to "Power Factor Characteristic" curve;									
	TOTAL TROPORT (Typ.)			•							
	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 will be lower than 20% when output loading is 75% or higher at 480VAC									
INPUT	EFFICIENCY (Typ.)	90%	90.5%	90.5%	90%						
• .	AC CURRENT (Typ.)		480VAC	00.070	0070						
	INRUSH CURRENT (Typ.)	COLD START 25A(twidth=420µs measured at 50% Ipeak) at 480VAC									
	MAX. No. of PSUs on 16A	On the Long amount in Logica in the destroy of the									
	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									
		195 ~ 210V	137 ~ 150V	98 ~ 107V	65 ~ 72V						
PROTECTION	OVER VOLTAGE				00 121						
	OVER TEMPERATURE	Protection type: Shut down o/p voltage with auto-recovery or re-power on to recovery  Shut down o/p voltage, recovers automatically after temperature goes down									
	WORKING TEMP.	-40 ~ +70°C (Refer to "Derating Curve")									
		20 ~ 95% RH non-condensing									
ENVIRONMENT	WORKING HUMIDITY STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH	9								
ENVIRUNMENT	TEMP. COEFFICIENT										
	VIBRATION	±0.03%/°C (0 ~ 60°C)									
		10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes UL8750, CSA C22.2 No. 250.13-12, ENEC EN61347-1, EN61347-2-13, EN62384, independent, IP65 or IP67 approved									
	SAFETY STANDARDS Note.5	UL6750, CSA C22.2 No. 250.15-12, ENEC EN61347-1, EN61347-2-13, EN62364, Independent, IPOS of IPO7 approved									
SAFETY &	WITHSTAND VOLTAGE										
EMC	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 (≥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/0.89Cl									
NOTE	<ol> <li>Ripple &amp; noise are measure</li> <li>Derating may be needed ur</li> <li>Please refer to "DRIVING N</li> <li>Safety and EMC design reference</li> <li>The power supply is consided</li> <li>EMC directives. For guidan (as available on http://www.</li> <li>Refer to warranty statement</li> </ol>	ed at 20MHz of bandwidth by nder low input voltages. Pleas METHODS OF LED MODULE er to EN60598-1, CNS15233, ered a component which will be on how to perform these Emeanwell.com) t.	using a 12" twisted pair-wi e check the static characte " and "DIMMING OPERAT GB7000.1. be installed into a final equ IMC tests, please refer to "	FION".  ipment. The final equipment mus EMI testing of component power	of parallel capacitor.  St be re-confirmed that it still meets or supplies."						
	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.  File Name: HVGC-65-SPEC 20										





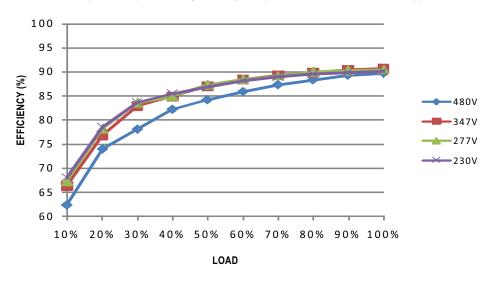






# ■ EFFICIENCY vs LOAD (HVGC-65-700 Model)

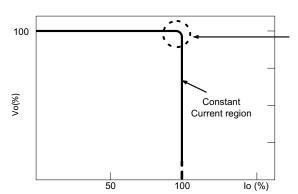
HVGC-65 series possess superior working efficiency that up to 90.5% can be reached in field applications.



### ■ 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".
- X Reference resistance value for output current adjustment (Typical)
- ※ Output voltage limit of 50%.

Resistance	Single driver	Short	10KΩ	20K Ω	30K Ω	<b>40K</b> Ω	50K $\Omega$	60KΩ	<b>70K</b> Ω	80KΩ	90KΩ	100K $\Omega$	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%

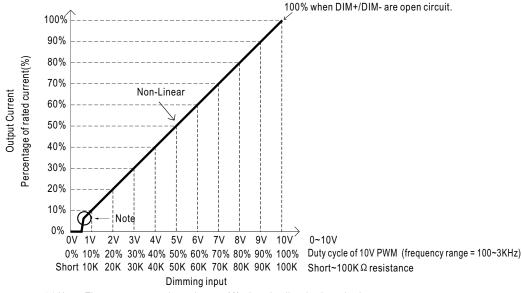
※ 0 ~ 10V dimming function for output current adjustment (Typical)

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%

💥 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

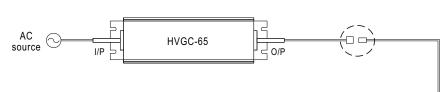


 $\divideontimes$  Note : The output current drops down to 0% when the dimming input is about 6K  $\Omega$  or 0.6Vdc, or 10V PWM signal with 6% duty cycle.

# ■ WATERPROOF CONNECTION

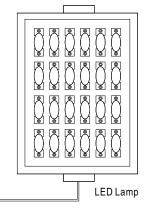
Waterproof connector

Waterproof connector can be assembled on the output cable of HVGC-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.					





# CJ04-1 suitable for 14AWG-16AWG CJ04-2 suitable for 18AWG-22AWG Up to four wires can be connected through this cable joiner by soldering or clamping by tools. HVGC-65 O/P Wires

※CJ04 cable joiner can be purchased independently for user's own assembly.

MEAN WELL order No. : CJ04-1, CJ04-2.