



### ■ 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.

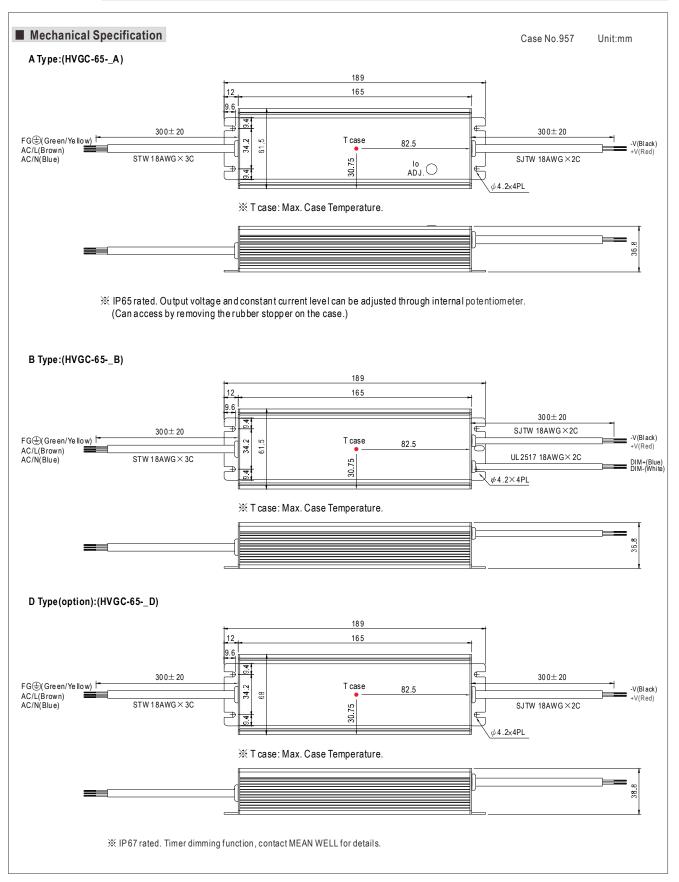
D (option): IP67 rated. Timer dimming function, contact MEAN WELL for details.

### **SPECIFICATION**

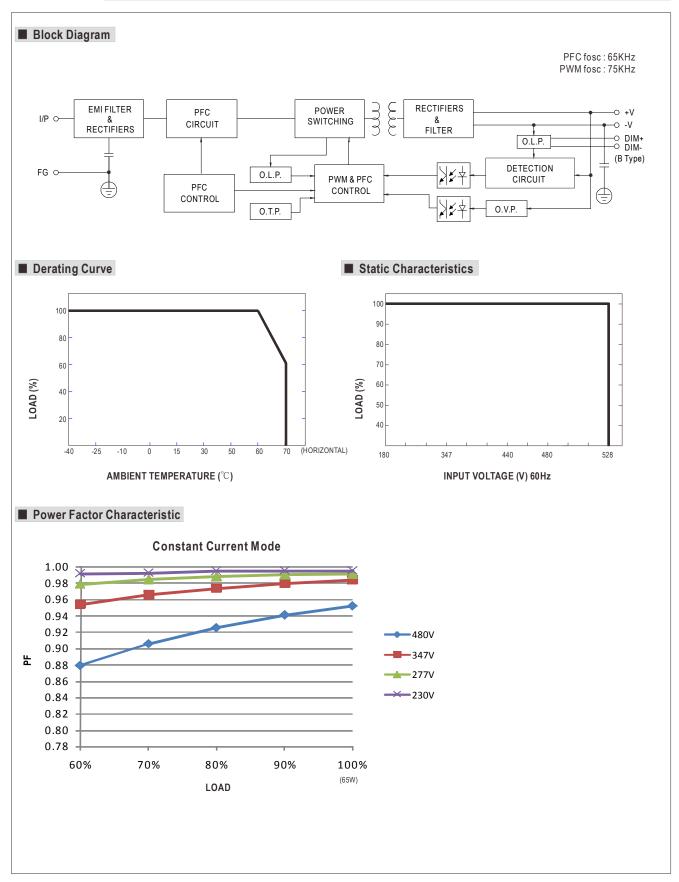
MODEL		HVGC-65-350         HVGC-65-500         HVGC-65-700         HVGC-65-1050									
RATED CURRENT		350mA	500mA	700mA	1050mA						
	CURRENT ACCURACY	±5.0%									
	OUTPUT VOLTAGE RANGE Note.4	18 ~ 186V	13 ~ 130V	9~93V	6 ~ 62V						
	RATED POWER	65.1W	65W	65.1W	65.1W						
	RIPPLE & NOISE (max.) Note.2	1Vp-p	0.7Vp-p	0.5Vp-p	0.3Vp-p						
OUTPUT		Can be adjusted by internal potentiometer A type only									
	CURRENT ADJ. RANGE	210 ~ 350mA	300 ~ 500 mA	420 ~ 700mA	630 ~ 1050mA						
		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									
		180 ~ 528 VAC 254 VDC ~ 7	747VDC								
	FREQUENCY RANGE	47 ~ 63Hz									
	POWER FACTOR (Typ.)		VAC. PF ≥ 0.95/347VAC. PF ≥ 0.93	/480VAC at full load (Please refer to	"Power Factor Characteristic" curv						
		,	, ,								
INPUT	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								
	EFFICIENCY (Typ.)	90%	90.5%	90.5%	90%						
	AC CURRENT (Typ.)	0.22A / 347VAC									
	INRUSH CURRENT (Typ.)	COLD START 25A(twidth=420)/s measured at 50% Ipeak) at 480VAC									
	LEAKAGE CURRENT	<0.75mA / 480VAC									
	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed									
	OHORT OIROUT	195 ~ 210V	137 ~ 150V	98 ~ 107V	65 ~ 72V						
PROTECTION	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									
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									
		UL8750, CSA C22.2 No. 250.0-13, ENEC EN61347-1, EN61347-2-13, EN62384, independent, IP65 or IP67 approved									
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC									
SAFETY &	ISOLATION RESISTANCE			Н							
EMC	EMC EMISSION	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH  Compliance to EN55015, EN61000-3-2 Class C (≥60% load) ; EN61000-3-3, FCC part 15 class B									
	EMC IMMUNITY		, , ,	· · · · · · · · · · · · · · · · · · ·	, 5						
	MTBF	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, light industry level (surge 4KV), criteria A  202.7K hrs min. MIL-HDBK-217F (25°C)									
OTHERS	DIMENSION	189*61.5*36.8mm (L*W*H)									
JIIILINO	PACKING	\									
NOTE	All parameters NOT special     Ripple & noise are measure     Derating may be needed ur     Please refer to "DRIVING N     Safety and EMC design refe     The power supply is consider.										

- 7. 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.



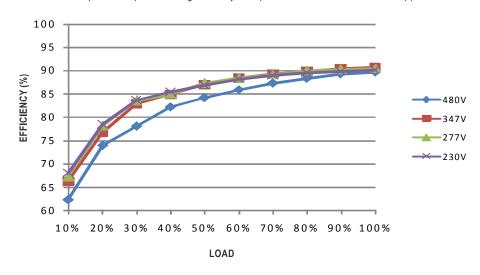






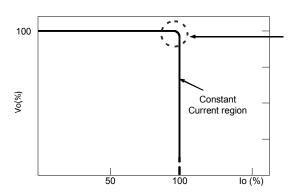
# ■ EFFICIENCY vs LOAD (HVGC-65-700 Model)

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).



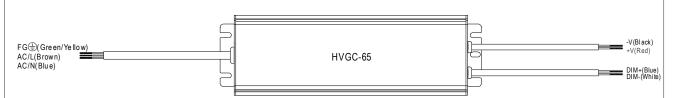
Typical LED power supply I-V curve

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.







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

Resistance	Single driver	Short	<b>10Κ</b> Ω	20ΚΩ	<b>30</b> ΚΩ	<b>40K</b> Ω	<b>50</b> ΚΩ	<b>60</b> ΚΩ	<b>70Κ</b> Ω	80KΩ	90 K Ω	100K $\Omega$	OPEN
value	Multiple drivers (N=driver quantity for syn chronized dimmin g 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	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	7 V	8V	9V	10V	OPEN
Percentage of rated current	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

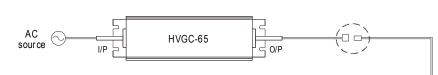
imes 10V PWM signal for output current adjustment (Typical): Frequency range :100Hz  $\sim$  3KHz

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%

### **■** 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	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 IS	2-PIN					
	12A/PIN					
Order No.	M15-02					
Suitable Current	12A max.					

