

HVGC-150



■ 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
- 5 years warranty (Note.7)



HVGC-150-350□A 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-150-350□	HVGC-150-500□	HVGC-150-700□	HVGC-150-1050□	HVGC-150-1400□	
OUTPUT	RATED CURRENT	350mA	500mA	700mA	1050mA	1400mA
	CURRENT ACCURACY	±5.0%				
	OUTPUT VOLTAGE RANGE Note.4	42 ~ 428V	30 ~ 300V	21 ~ 215V	15 ~ 143V	12 ~ 107V
	RATED POWER	149.8W	150W	150.5W	150.15W	149.8W
	RIPPLE & NOISE (max.) Note.2	2Vp-p	1.5Vp-p	1Vp-p	0.7Vp-p	0.5Vp-p
	CURRENT ADJ. RANGE	Can be adjusted by internal potentiometer A type only				
		210 ~ 350mA	300 ~ 500mA	420 ~ 700mA	630 ~ 1050mA	840 ~ 1400mA
INPUT	SETUP, RISE TIME	2700ms, 150ms at full load 480VAC / 347VAC ; B type 5000ms, 150ms at 95% load 480VAC / 347VAC				
	HOLD UP TIME (Typ.)	18ms at full load 480VAC / 347VAC				
	VOLTAGE RANGE Note.3	180 ~ 528VAC	254VDC ~ 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 HARMONIC DISTORTION	THD<20% when output loading≥50% at 230VAC/277VAC/347VAC input ; THD<20% when output loading≥75% at 480VAC input				
	EFFICIENCY (Typ.)	91%	91%	91%	90%	90%
	AC CURRENT (Typ.)	0.5A / 347VAC	0.38A / 480VAC			
PROTECTION	INRUSH CURRENT (Typ.)	COLD START 35A(twidth=790μs measured at 50% Ipeak) at 480VAC				
	LEAKAGE CURRENT	<0.75mA / 480VAC				
	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed				
	OVER VOLTAGE	430 ~ 460V	316 ~ 346V	226 ~ 247V	151 ~ 165V	113 ~ 124V
	OVER TEMPERATURE	95°C ±10°C (RTH2) Protection type : Shut down o/p voltage with auto-recovery or re-power on to recovery				
ENVIRONMENT	WORKING TEMP.	-40 ~ +70°C (Refer to "Derating Curve")				
	WORKING HUMIDITY	20 ~ 95% RH non-condensing				
	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 & EMC	SAFETY STANDARDS Note.5	UL8750, 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: 0.5KVAC				
	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				
OTHERS	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				
NOTE	<ol style="list-style-type: none"> 1. All parameters NOT specially mentioned are measured at 347VAC input, rated load and 25°C of ambient 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. Constant current operation region is within 50% ~100% rated output voltage, 60% ~100% only for 15V model rated output voltage. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design. 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. 7. Refer to warranty statement. 					