

## 150W Single Output Switching Power Supply **HLG-150H-xx ADM** series



## Features :

- Universal AC input / Full range (up to 305VAC)
- Built-in active PFC function
- High efficiency up to 94%
- Protections: Short circuit / Over current / 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
- \* Type HL LED Driver for use in Class  $\ I$  , Division 2 hazardous location luminaires
- \* Three in one dimming function (1~10Vdc or PWM signal or resistance)
- Suitable for LED lighting and street lighting applications
   Compliance to worldwide safety regulations for lighting
- Compliance to worldwide safety regulations for lighting
   Suitable for dry / damp / wet locations
- 7 years warranty (Note.10)

 energy safe	$\Theta \bigcirc$	<b>F</b> 1	10/ M/	M	SELV	IP65 IP67	

HLG-150H-12  $\fbox{A}$  Blank : IP67 rated. Cable for I/O connection.

A : IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.

B : IP67 rated. Constant current level adjustable through output cable with 1~10Vdc or 10V PWM signal or resistance.

## SPECIFICATION

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MODEL		HLG-150H-12	HLG-150H-15	HLG-150H-20	HLG-150H-24	HLG-150H-30	HLG-150H-36	HLG-150H-42	HLG-150H-48	] HLG-150H-54[			
	DC VOLTAGE	12V	15V	20 V	24V	30V	36V	42V	48V	54 V			
OUTPUT	CONSTANT CURRENT REGION Note.4	6~12V	7.5 ~ 15V	10 ~ 20V	12 ~ 24V	15~30V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V			
	RATED CURRENT	12.5A	10A	7.5A	6.3A	5A	4.2A	3.6A	3.2A	2.8A			
	RATED POWER	150W	150W	150W	151.2W	150W	151.2W	151.2W	153.6W	151.2W			
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p			
	VOLTAGE ADJ. RANGE Note.6	10.8 ~ 13.5V		17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	38~46V	43 ~ 53V	49 ~ 58V			
		Can be adjusted by internal potentiometer A type only											
	CURRENT ADJ. RANGE	7.5 ~ 12.5A	6 ~ 10A	4.5 ~ 7.5A	3.8~6.3A	3 ~ 5A	2.5~4.2A	2.16~3.6A	1.92~3.2A	1.68~2.8A			
	VOLTAGE TOLERANCE Note.3		±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%			
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%			
	LOAD REGULATION	±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%			
	SETUP, RISE TIME Note.8		I	1									
	HOLD UP TIME (Typ.)	1000ms,50ms/115VAC 500ms,50ms/230VAC at full load ; B type 1000ms,200ms/115VAC 500ms,200ms/230VAC at 95% loat full load 230VAC / 115VAC											
	VOLTAGE RANGE Note.5	90 ~ 305VAC 127 ~ 431VDC											
INPUT	FREQUENCY RANGE	90 ~ 305VAC 127 ~ 431VDC 47 ~ 63Hz											
	POWER FACTOR (Typ.)												
	TOTAL HARMONIC DISTORTION	PF>0.98/115VAC, PF>0.95/230VAC, PF>0.92/277VAC at full load (Please refer to "Power Factor Characteristic" curve) THD<20% when output loading≧60% at 115VAC/230VAC input and output loading≧75% at 277VAC input											
	EFFICIENCY (Typ.)	91.5%	92%	93%	93%	93.5%	93.5%	94%	94%	94%			
	(31)						93.3%	94 %	94 %	94%			
	AC CURRENT (Typ.)	1.7A/115VAC 0.75A/230VAC 0.7A/277VAC											
	INRUSH CURRENT (Typ.)	COLD START 65A(twidth=425µs measured at 50% Ipeak) at 230VAC											
	LEAKAGE CURRENT	<0.75mA/277VAC											
	OVER CURRENT	95~108%											
		Protection type : Constant current limiting, recovers automatically after fault condition is removed Constant current limiting, recovers automatically after fault condition is removed											
PROTECTION	SHORT CIRCUIT					1		47 5014	= 4 0014	50 0514			
	OVER VOLTAGE	14 ~ 17V	18 ~ 21V	23~27V	28 ~ 34V	34 ~ 38V	41~46V	47 ~ 53V	54 ~ 63V	59 ~ 65V			
		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 $^\circ \rm C$ (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(	<b>0∼50°</b> C)										
	VIBRATION	10~500Hz, 5	G 12min./1cyc	cle, period for	72min. each al	ong X, Y, Z axe	s						
	SAFETY STANDARDS Note.7	UL8750, CSA C22.2 No. 250.0-08, EN61347-1, EN61347-2-13 independent IP65 or IP67, J61347-1, J61347-2-13 approved											
		design refer to UL60950-1, TUV EN60950-1											
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75	KVAC I/P-F	G:2KVAC O	/P-FG:1.5KVA	C							
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-F	G, O/P-FG:10	)0M Ohms / 50	0VDC / 25°C/	70% RH							
	EMC EMISSION	Compliance t	o EN55015, EN	155022 (CISPF	R22) Class B, E	EN61000-3-2 C	lass C (≧60%	[load) ; EN610	00-3-3				
	EMC IMMUNITY	Compliance to EN55015, EN55022 (CISPR22) Class B, EN61000-3-2         Class C (≧60% load) ; EN61000-3-3           Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge 4KV), criteria A											
OTHERS	MTBF	192.2K hrs m		3K-217F (25℃		, , , ,		<u>J // / / / / / / / / / / / / / / / / / </u>					
	DIMENSION	228*68*38.8r	nm		, 								
	PACKING		s/14.8Kg/0.8C	UFT									
NOTE	<ol> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>Please refer to "DRIVING METHODS OF LED MODULE".</li> <li>Derating may be needed under low input voltages. Please check the static characteristics for more details.</li> <li>A type only.</li> <li>Safety and EMC design refer to EN60598-1, subject 8750(UL), CNS15233, GB7000.1, FCC part18.</li> <li>Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time.</li> <li>The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by th complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.</li> <li>Refer to warranty statement.</li> <li>To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently</li> </ol>												



















