

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	$\Theta \bigcirc$	F 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(0∼50° 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	 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance : includes set up tolerance, line regulation and load regulation. Please refer to "DRIVING METHODS OF LED MODULE". Derating may be needed under low input voltages. Please check the static characteristics for more details. A type only. Safety and EMC design refer to EN60598-1, subject 8750(UL), CNS15233, GB7000.1, FCC part18. 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. 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. Refer to warranty statement. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently 												



















