

1

TAIWAN

## 185W Single Output Switching Power Supply **HLG-185H-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
  - Suitable for dry / damp / wet locations
  - 7 years warranty (Note.10)

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HLG-185H-12 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 potentiometer.

SPECIFIC	ATION						_	_	_	_	
MODEL	MODEL		HLG-185H-12	HLG-185H-15	HLG-185H-20	HLG-185H-24	HLG-185H-30	HLG-185H-36	HLG-185H-42	HLG-185H-48	HLG-185H-54
ουτρυτ	DC VOLTAGE		12V	15V	20V	24V	30V	36V	42V	48V	54V
	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		13A	11.5A	9.3A	7.8A	6.2A	5.2A	4.4A	3.9A	3.45A
	RATED POWER		156W	172.5W	186W	187.2W	186W	187.2W	184.8W	187.2W	186.3W
	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	13.5 ~ 17V	17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	38 ~ 46V	43 ~ 53V	49 ~ 58V
	CURRENT ADJ. RANGE		Can be adjusted by internal potentiometer A type only								
			6.5 ~ 13A	5.75 ~ 11.5A	4.65 ~ 9.3A	3.9 ~ 7.8A	3.1~6.2A	2.6 ~ 5.2A	2.2~4.4A	1.95 ~ 3.9A	1.72 ~ 3.45
			$\pm 2.5\%$	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION		$\pm 0.5\%$	±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		1000ms,50ms	s/115VAC 50	)0ms,50ms/23	0VAC at full lo	ad; Btype 100	0ms,200ms/11	5VAC 500m	s,200ms/230V	'AC at 95% lo
	HOLD UP TIME (Typ.)		16ms at full load 230VAC / 115VAC								
			90 ~ 305 VAC 127 ~ 431 VDC								
INPUT	FREQUENCY RANGE		47 ~ 63Hz								
	POWER FACTOR (Typ.)		PF>0.98/115VAC, PF>0.95/230VAC, PF>0.92/277VAC at full load (Please refer to "Power Factor Characteristic" curve)								
	TOTAL HARMONIC DISTORTION						VAC input and				
	EFFICIENCY (Typ.)		91.5%	92%	93%	93.5%	93.5%	93.5%	94%	94%	94%
	AC CURRENT	12V	1.8A / 115VA			7A / 277VAC	00.070	00.070	0170	0170	01/0
	(Typ.)	15V ~ 54V									
	INRUSH CURRENT (Typ.)		2.1A / 115VAC 0.9A / 230VAC 0.8A / 277VAC COLD START 65A(twidth=445µs measured at 50%  peak) at 230VAC								
	LEAKAGE CURRENT		COLD START 65A((width=445)/s Theasured at 50% (peak) at 230VAC <0.75mA / 277VAC								
			95~108%								
PROTECTION	OVER CURRENT										
			Protection type : Constant current limiting, recovers automatically after fault condition is removed Constant current limiting, recovers automatically after fault condition is removed								
	SHORT CIRCUIT			-			-	1	47 501/	54 0014	50 051/
	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								
ENVIRONMENT	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								
	STORAGE TEMP., HUMIDITY		-40 ~ +80°C, 10 ~ 95% RH								
	TEMP. COEFFICIENT		±0.03%/°C (0~50°C)								
	VIBRATION		10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes								
SAFETY & EMC	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								
	WITHSTAND VOLTAGE		I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC								
	ISOLATION RESISTANCE		I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH								
	EMC EMISSION		Compliance to EN55015, EN55022 (CISPR22) Class B, EN61000-3-2 Class C (≧50% load) ; EN61000-3-3								
	EMC IMMUNITY		Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge 4KV), criteria A								
	MTBF		192.2K hrs min. MIL-HDBK-217F (25°C)								
OTHERS	DIMENSION		228*68*38.8mm (L*W*H)								
	PACKING		1.15Kg; 12pcs/14.8Kg/0.8CUFT								
NOTE	<ol> <li>Ripple &amp; noise</li> <li>Tolerance : inc.</li> <li>Please refer to</li> <li>Derating may b</li> <li>A type only.</li> <li>Safety and EM</li> <li>Length of set u</li> <li>The power sup complete instal</li> <li>Refer to warra</li> </ol>	are measure ludes set up "DRIVING No be needed u C design ref up time is me uply is consid lation, the fir anty stateme	Illy mentioned are measured at 230VAC input, rated load and 25 <sup>°</sup> C of ambient temperature. ed at 20MHz of bandwidth by using a 12 <sup>°</sup> twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. tolerance, line regulation and load regulation. WETHODS OF LED MODULE <sup>°</sup> . nder low input voltages. Please check the static characteristics for more details. fer to EN60598-1, CNS15233, GB7000.1, FCC part18. pasured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. Jacred as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the rate quipment manufacturers must re-qualify EMC Directive on the complete installation again. ent.								



















