

185W Single Output Switching Power Supply

HLG-185H 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
- 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
- 5 years warranty (Note.9)



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HLG-185H-12 A Blank : IP67 rated. Cable for I/O connection.

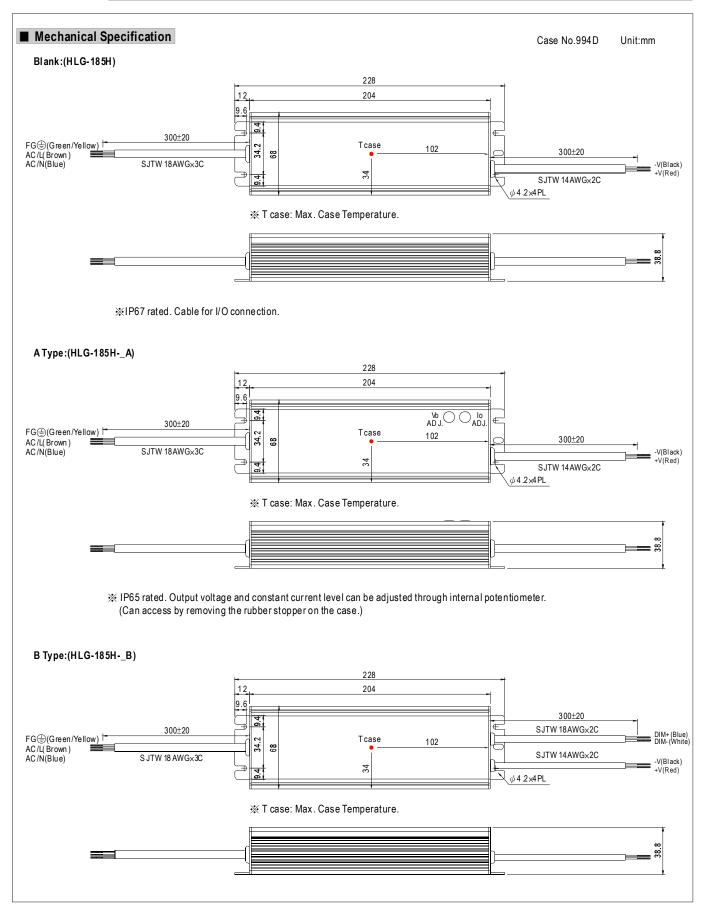
A : IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.

B : IP67 rated. Constant current level adjustable through output cable with 1~10Vdc or 10V PWM signal or potentiometer. D (option, safety pending) : IP67 rated. Timer dimming function, contact MEAN WELL for details.

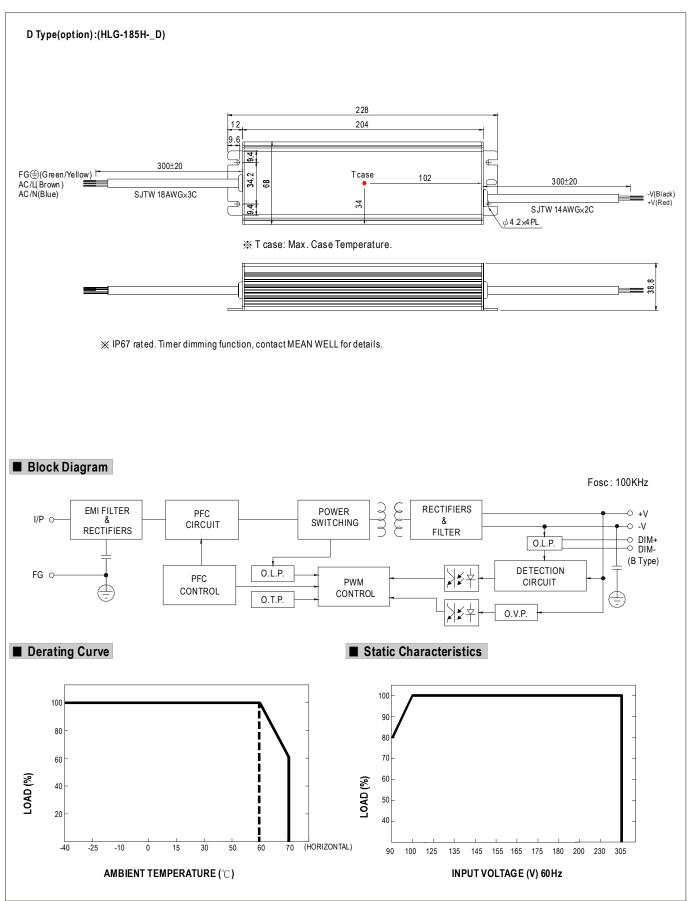
SPECIFICATION

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	
	DC VOLTAGE		12V	15V	20V	24V	30V	36V	42V	48V	54V
OUTPUT	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.5		10.8~13.5V	13.5~17V	17~22V	22~27V	27~33V	33~40V	38 ~ 46V	43~53V	49~58V
	CURRENT AD J. RANGE VOLTAGE TOLERANCE Note.3		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	1.72~3.45A
			±2.5%	±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.7		2500ms, 80m	s at full load	230VAC / 115\	AC; B type	2500ms, 200m	s at 95% load	230VAC / 11	5VAC	
	HOLD UP TIME (Typ.)		16ms at full load 230VAC / 115VAC								
INPUT			90 ~ 305VAC 127 ~ 431VDC								
	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)								
	EFFICIENCY (Typ.)		91.5%	92%	93%	93.5%	93.5%	93.5%	94%	94%	94%
	AC CURRENT (Typ.)	, 12V	1.8A / 115VA	C 0.8A/2	30VAC 0.	7A / 277VAC					
		15V ~ 54V	2.1A/115VAC 0.9A/230VAC 0.8A/277VAC								
	INRUSH CURRENT (Typ.)		COLD START 65A (twidth=445/µs measured at 50% Ipeak) at 230VAC								
	LEAKAGE CURRENT		<0.75mA/277VAC								
PROTECTION	OVER CURRENT		95~108%								
			Protection type : Constant current limiting, recovers automatically after fault condition is removed								
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	OVER VOLTAGE		14~17V	18~21V	23~27V	28~34V	34~38V	41~46V	47 ~ 53V	54 ~ 63V	59 ~ 65V
										0.001	
			Protection type : Shut down o/p voltage with auto-recovery or re-power on to recovery 100°C ±10°C (RTH2)								
	OVER TEMPERATURE		Protection type : Shut down o/p voltage, recovers automatically after temperature goes down								
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 (0~50°C)								
	VIBRATION		10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes								
			UL8750, CSA C22.2 No. 250.0-08, EN61347-1, EN61347-2-13 independent IP65 or IP67, J61347-1, J61347-2-13 approved ;								
SAFETY &	SAFETY STANDARDS Note.6		design refer to UL60950-1, TUV EN60950-1								
	ISOLATION RESISTANCE		1/P-0/P:3.75KVAC 1/P-FG:2KVAC 0/P-FG:0.5KVAC								
EMC			I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH 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								
OTHERS	MTBF		192.2K hrs min. MIL-HDBK-217F (25°C)								
	DIMENSION		228*68*38.8mm (L *W*H)								
	PACKING		1.15Kg; 12pcs/14.8Kg/0.8CUFT								
NOTE	 All parameters NOT specially mentioned are measured at 230 VAC 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. 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, 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 the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. Refer to warranty statement. 										









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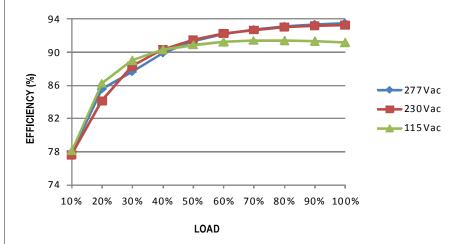
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HLG-185H series



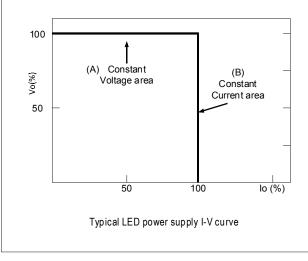
EFFICIENCY vs LOAD (48V Model)

HLG-185H series possess superior working efficiency that up to 94% can be reached in field applications.

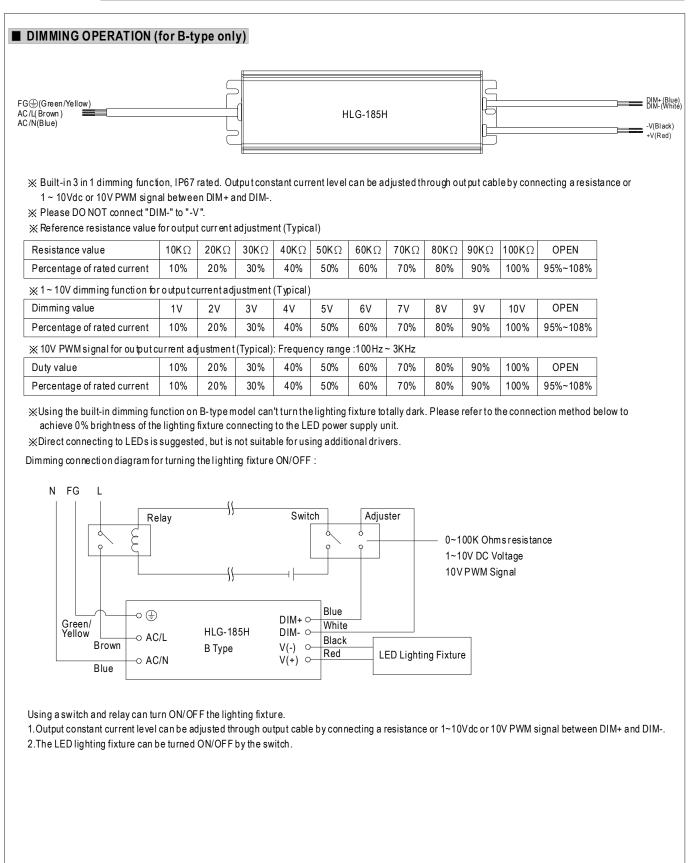


DRIVING METHODS OF LED MODULE

There are two major kinds of LED drive method "direct drive" and "with LED driver". A typical LED power supply may either work in "constant voltage mode (CV) or constant current mode (CC)" to drive the LEDs. Mean Well's LED power supply with CV+ CC characteristic can be operated at both CV mode (with LED driver, at area (A) and CC mode (direct drive, at area (B).









■ WATERPROOF CONNECTION

\odot Waterproof connector

Waterproof connector can be assembled on the output cable of HLG-185H to operate in dry/wet/damp or outdoor environment.

