



- 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)



















HLG-185H-12 A

Blank: IP67 rated. Cable for I/O connection.

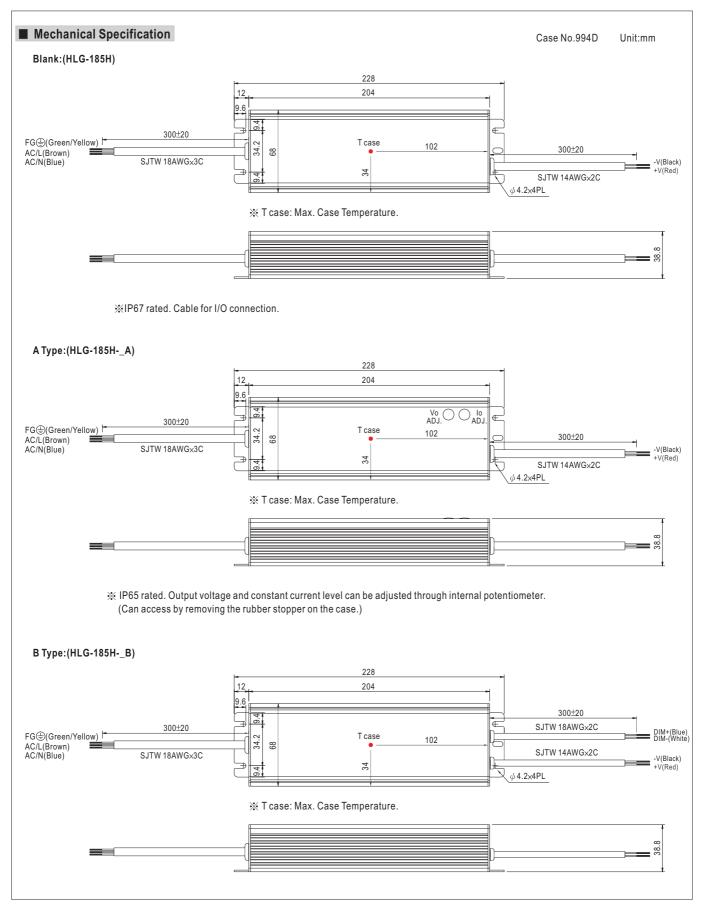
- A: IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.
- B: IP67 rated. Constant current level adjustable through output cable with 1~10Vdc or 10V PWM signal or potentiometer.
- D (option): IP67 rated. Timer dimming function, contact MEAN WELL for details.

SPECIFICATION

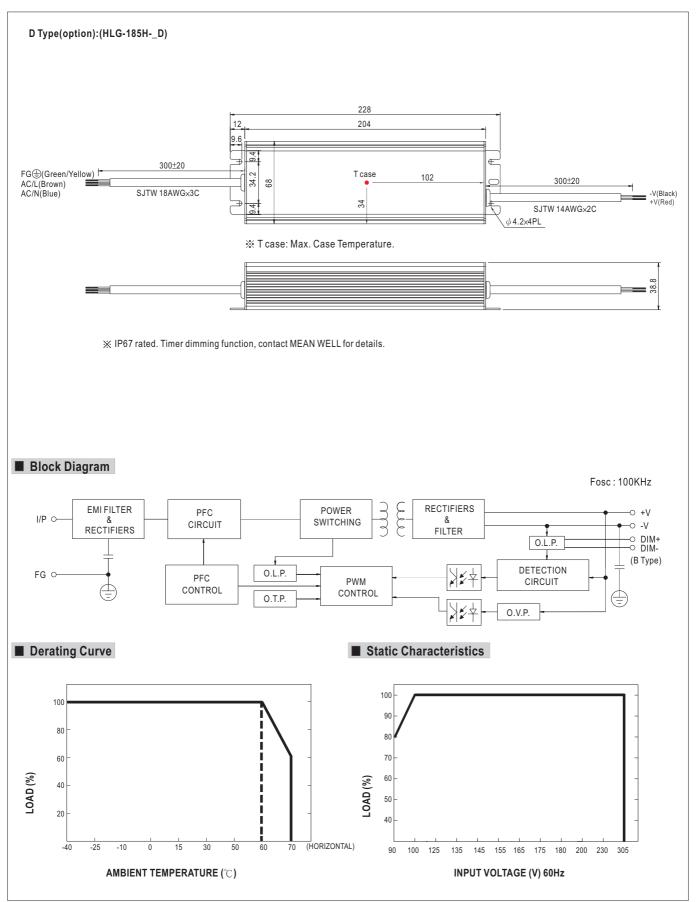
MODEL		HLG-185H-12	HLG-185H-15	HLG-185H-20	HLG-185H-24	HLG-185H-30	HLG-185H-36	HLG-185H-42	HLG-185H-48	HLG-185H-54			
DC VOLTAGE		12V	15V	20V	24V	30V	36V	42V	48V	54V			
	RATED CURRENT		13A	11.5A	9.3A	7.8A	6.2A	5.2A	4.4A	3.9A	3.45A		
	RATED POWER		156W	172.5W	186W	187.2W	186W	187.2W	184.8W	187.2W	186.3W		
	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 ADJ. RANGE		Can be adjusted by internal potentiometer A type only										
OUTPUT			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		
	VOLTAGE TOLERANCE Note.3		±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	ON	±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, 200ms	s at 95% load	230VAC / 115	VAC			
	HOLD UP TIME (T	yp.)	16ms at full lo	ad 230VAC	/ 115VAC		·						
	VOLTAGE RANGE		90 ~ 305VAC	127 ~ 431	1VDC								
	FREQUENCY RAN		47 ~ 63Hz										
	POWER FACTOR		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%		
INPUT	AC CURRENT	12V	1.8A / 115VA			.7A / 277VAC	1000	00.070	- 170	- 170			
	(Typ.)	15V ~ 54V	2.1A / 115VA			.8A / 277VAC							
	INRUSH CURREN			75A/230VAC									
LEAKAGE CURRENT			<0.75mA/277VAC										
	ELYHOLO COMMENT		95~108%										
	OVER CURRENT		95 ~ 105% Protection type: Constant current limiting, recovers automatically after fault condition is removed										
	SHORT CIRCUIT	SHODT CIDCUIT		Constant current limiting, recovers automatically after fault condition is removed									
	OHORT GIROOTI		14 ~ 17V	18 ~ 21V	23 ~ 27V	28 ~ 34V	34 ~ 38V	41 ~ 46V	47 ~ 53V	54 ~ 60V	59 ~ 65V		
PROTECTION	OVER VOLTAGE									01 001	00 001		
	OVER TEMPERATURE		Protection type: Shut down o/p voltage with auto-recovery or re-power on to recovery 100°C ±10°C (RTH2)										
			Protection type: Shut down o/p voltage, recovers automatically after temperature goes down										
			-40 ~ +70°C (Refer to "Derating Curve")										
	WORKING TEMP.		20 ~ 95% RH non-condensing										
ENVIRONMENT	WORKING HUMIDITY		-40 ~ +80°C, 10 ~ 95% RH										
ENVIRONMENT	STORAGE TEMP., HUMIDITY		±0.03%°C (0~50°C)										
	TEMP. COEFFICIENT												
	VIBRATION			10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes									
	SAFETY STANDARDS Note.6		UL8750, CSA C22.2 No. 250.0-08, EN61347-1, EN61347-2-13 independent IP65 or IP67, J61347-1, J61347-2-13 approved;										
SAFETY &			design refer to UL60950-1, TUV EN60950-1										
	WITHSTAND VOLTAGE		/P-0/P:3.75KVAC /P-FG:2KVAC 0/P-FG:0.5KVAC										
EMC	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										
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 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. Derating may be needed under low input voltages. Please check the static characteristics for more details. Type A only. Safety and EMC design refer to EN60598-1, CNS15233, GB7000.1, FCC part18. 												

- . Safety and EMC design refer to EN60598-1, CNS15233, GB7000.1, FCC part18.
- 7. 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.
- 8. 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.
- 9. Refer to warranty statement.



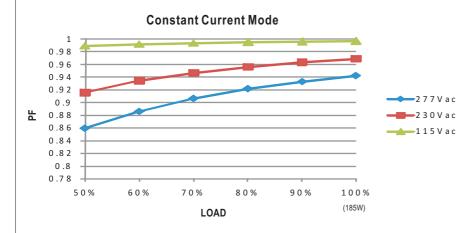






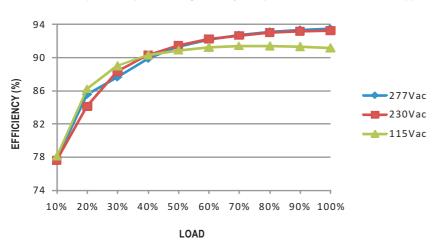


■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (48V Model)

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

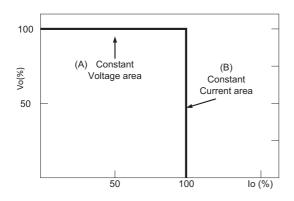


■ DRIVING METHODS OF LED MODULE

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).



Typical LED power supply I-V curve



■ DIMMING OPERATION (for B-type only)



- ※ Please DO NOT connect "DIM-" to "-V".
- X Reference resistance value for output current adjustment (Typical)

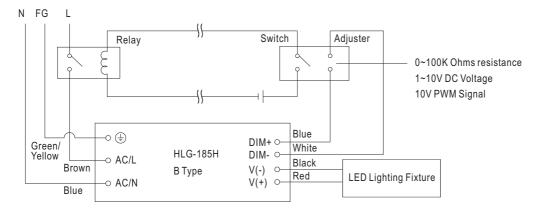
Resistance value	10K Ω	20K Ω	30K Ω	40K Ω	50K Ω	60K Ω	70K Ω	80K Ω	90ΚΩ	100K Ω	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%
※ 1 ~ 10V dimming function for output current adjustment (Typical)											
Dimming value	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN

Diffilling value	I V	Z V	3 V	4 V	JV	OV	1 V	OV	σv	10 V	OFLIN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%
NY 40V DWA I Company to the standard of											

💥 10V PWM signal for output current adjustment (Typical): Frequency range :100Hz ~ 3KHz Duty value 90% 100% OPEN 10% 20% 30% 40% 50% 60% 70% 80% 30% 50% Percentage of rated current 10% 20% 40% 60% 95%~108% 70% 80% 90% 100%

- XUsing the built-in dimming function on B-type model can't turn the lighting fixture totally dark. Please refer to the connection method below to achieve 0% brightness of the lighting fixture connecting to the LED power supply unit.
- *Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.

Dimming connection diagram for turning the lighting fixture $\mbox{ON/OFF}$:



Using a switch and relay can turn ON/OFF the lighting fixture.

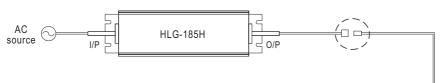
- 1.Output constant current level can be adjusted through output cable by connecting a resistance or 1~10Vdc or 10V PWM signal between DIM+ and DIM-.
- 2. The LED lighting fixture can be turned ON/OFF by the switch.



■ WATERPROOF CONNECTION

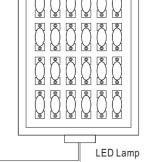
Waterproof connector

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



Size	Pin Configuration (Female)						
M12	00	000					
IVIIZ	4-PIN	5-PIN					
	5A/PIN	5A/PIN					
Order No.	M12-04	M12-05					
Suitable Current	10A max.	10A max.					

Size	Pin Configuration (Female)					
M15	00					
IVI I J	2-PIN					
	12A/PIN					
Order No.	M15-02					
Suitable Current	12A max.					



O Cable Joiner

