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)



















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.

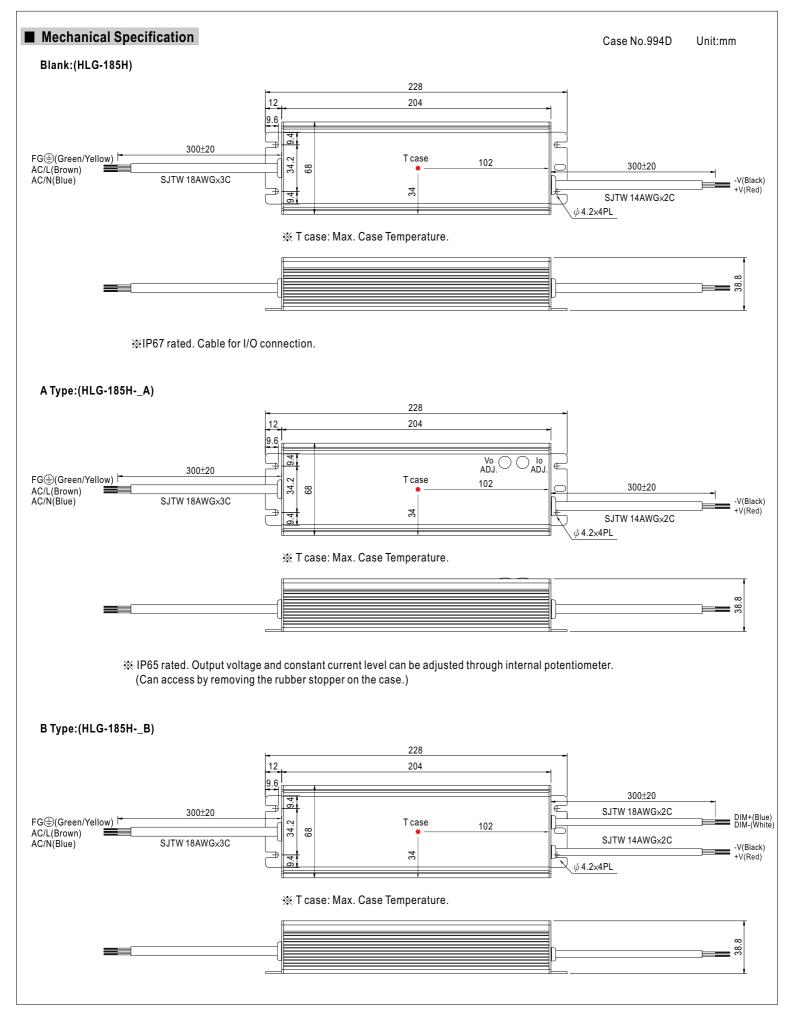
D (option): IP67 rated. Timer dimming function, contact MEAN WELL for details.

SPECIFICATION

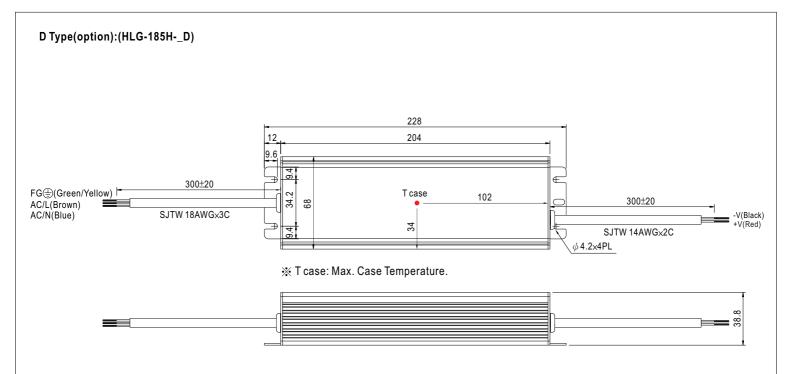
48V 3.9A 187.2W 200mVp-p 43 ~ 53V 1.95 ~ 3.9A ±1.0% ±0.5% ±0.5% 115VAC	54V 3.45A 186.3W 200mVp-p 49 ~ 58V 1.72 ~ 3.45. ±1.0% ±0.5%								
187.2W 200mVp-p 43 ~ 53V 1.95 ~ 3.9/ ±1.0% ±0.5% ±0.5% 115VAC	186.3W 200mVp-p 49 ~ 58V 1.72 ~ 3.45 ±1.0% ±0.5%								
200mVp-p 43 ~ 53V 1.95 ~ 3.9/ ±1.0% ±0.5% ±0.5% 115VAC	200mVp-p 49 ~ 58V 1.72 ~ 3.45 ±1.0% ±0.5%								
43 ~ 53V 1.95 ~ 3.9/ ±1.0% ±0.5% ±0.5% 115VAC	49 ~ 58V 1.72 ~ 3.45 ±1.0% ±0.5%								
1.95 ~ 3.9/ ±1.0% ±0.5% ±0.5% 115VAC	49 ~ 58V 1.72 ~ 3.45 ±1.0% ±0.5%								
±1.0% ±0.5% ±0.5% 115VAC	1.72 ~ 3.45. ±1.0% ±0.5%								
±1.0% ±0.5% ±0.5% 115VAC	±1.0% ±0.5%								
±1.0% ±0.5% ±0.5% 115VAC	±1.0% ±0.5%								
±0.5% ±0.5% 115VAC	±0.5%								
±0.5% 115VAC									
115VAC									
Characteristic" c									
Characteristic" c									
Characteristic" c									
	ırve)								
94%	94%								
12110	3.70								
1.8A / 115VAC 0.8A / 230VAC 0.7A / 277VAC 2.1A / 115VAC 0.9A / 230VAC 0.8A / 277VAC									
COLD START 75A/230VAC <0.75mA / 277VAC									
95 ~ 108%									
Protection type: Constant current limiting, recovers automatically after fault condition is removed									
Constant current limiting, recovers automatically after fault condition is removed									
54 ~ 60V	59 ~ 65V								
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")									
20 ~ 95% RH non-condensing									
-40 ~ +80°C, 10 ~ 95% RH									
±0.03%/°C (0~50°C)									
10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes									
2/7 1 1613/7	12 approved								
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									
I/P-O/P:3.75KVAC I/P-FG:1.88KVAC O/P-FG:0.5KVAC									
/P-O/P, /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									
Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge 4KV), criteria A 192.2Khrs min. MIL-HDBK-217F (25°C)									

- 3. Tolerance: includes set up tolerance, line regulation and load regulation.
- 4. Derating may be needed under low input voltages. Please check the static characteristics for more details.
- 5. Type A only
- 6. 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.

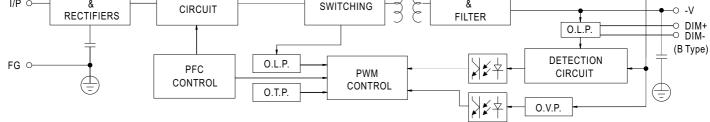




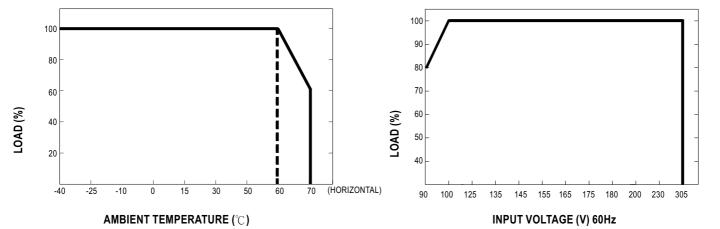




Fosc: 100KHz | POWER SWITCHING FILTER & DIM | POWER SWITCHING FILTER & DIM | O.L.P. DIM | DI

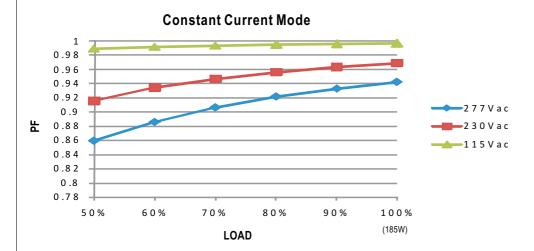






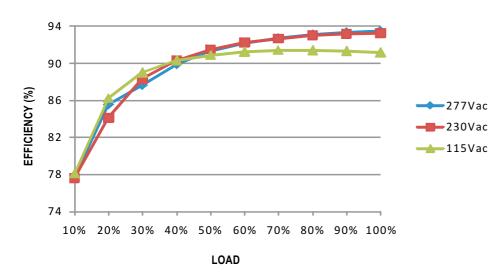


■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (48V Model)

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

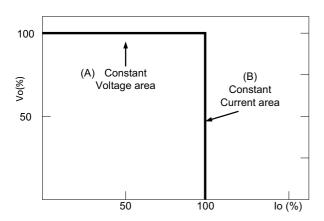


■ DRIVING METHODS OF LED MODULE

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.

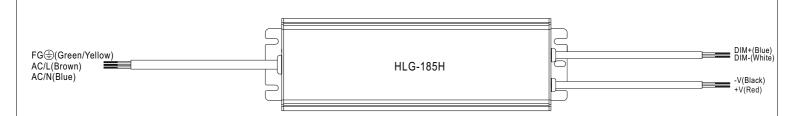
Mean Well's LED power supply with CV+ CC characteristic can be operated at both CV mode (with LED driver, at area (A) and CC mode (direct drive, at area (B).



Typical LED power supply I-V curve



■ DIMMING OPERATION



- ※ 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%	102%~108%

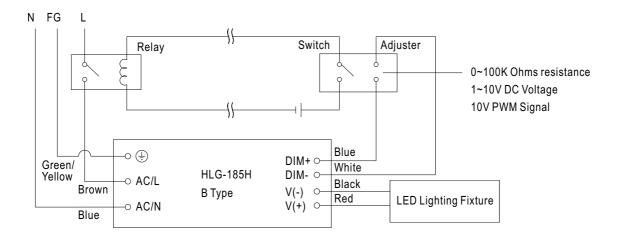
Dimming value	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	102%~108%

※ 10V PWM signal for output current adjustment (Typical): Frequency range :100Hz ~ 3KHz

Duty value	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	102%~108%

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.

Dimming connection diagram for turning the lighting fixture ON/OFF:



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

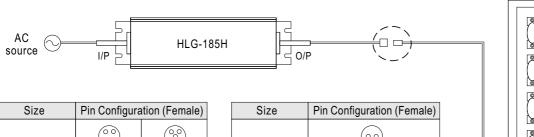
- 1.Output constant current level can be adjusted through output cable by connecting a resistance or 1~10Vdc or 10V PWM signal between DIM+ and DIM-.
- 2. The LED lighting fixture can be turned ON/OFF by the switch.



■ WATERPROOF CONNECTION

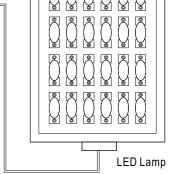
Waterproof connector

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

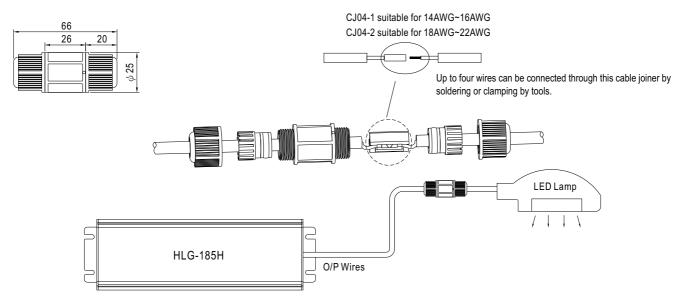


Size	Pin Configura	Pin Configuration (Female)						
M12	000	000						
IVIIZ	4-PIN	5-PIN						
	5A/PIN	5A/PIN						
Order No.	M12-04	M12-05						
Suitable Current	10A max.	10A max.						

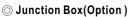
Size	Pin Configuration (Female)			
M4 E	\odot			
M15	2-PIN			
	12A/PIN			
Order No.	M15-02			
Suitable Current	12A max.			

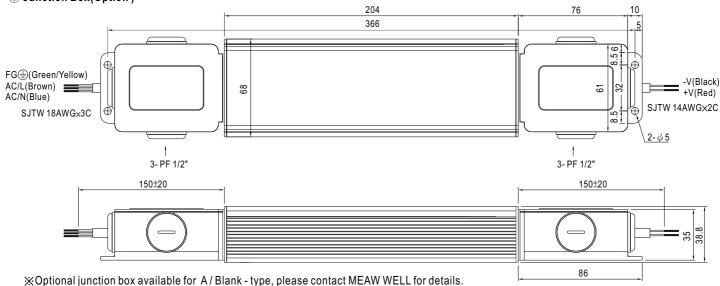


O Cable Joiner



XCJ04 cable joiner can be purchased independently for user's own assembly. MEAN WELL order No. : CJ04-1, CJ04-2.







Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию.

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России, а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

Минимальные сроки поставки, гибкие цены, неограниченный ассортимент и индивидуальный подход к клиентам являются основой для выстраивания долгосрочного и эффективного сотрудничества с предприятиями радиоэлектронной промышленности, предприятиями ВПК и научно-исследовательскими институтами России.

С нами вы становитесь еще успешнее!

Наши контакты:

Телефон: +7 812 627 14 35

Электронная почта: sales@st-electron.ru

Адрес: 198099, Санкт-Петербург,

Промышленная ул, дом № 19, литера Н,

помещение 100-Н Офис 331