

200W Single Output LED Power Supply

HLG-185H-C series



- Features :
- Constant current design
- Universal AC input / Full range (up to 305VAC)
- Built-in active PFC function
- High efficiency up to 94%
- Protections: Short circuit / Over voltage / Over temperature
- Cooling by free air convection
- Output current adjustable through output cable or internal potentiometer
- IP67 / IP65 design for indoor or outdoor installations
- Three in one dimming function (1~10Vdc or 10V PWM signal or resistance)
- Suitable for dry / damp / wet locations
- 5 years warranty (Note.5)



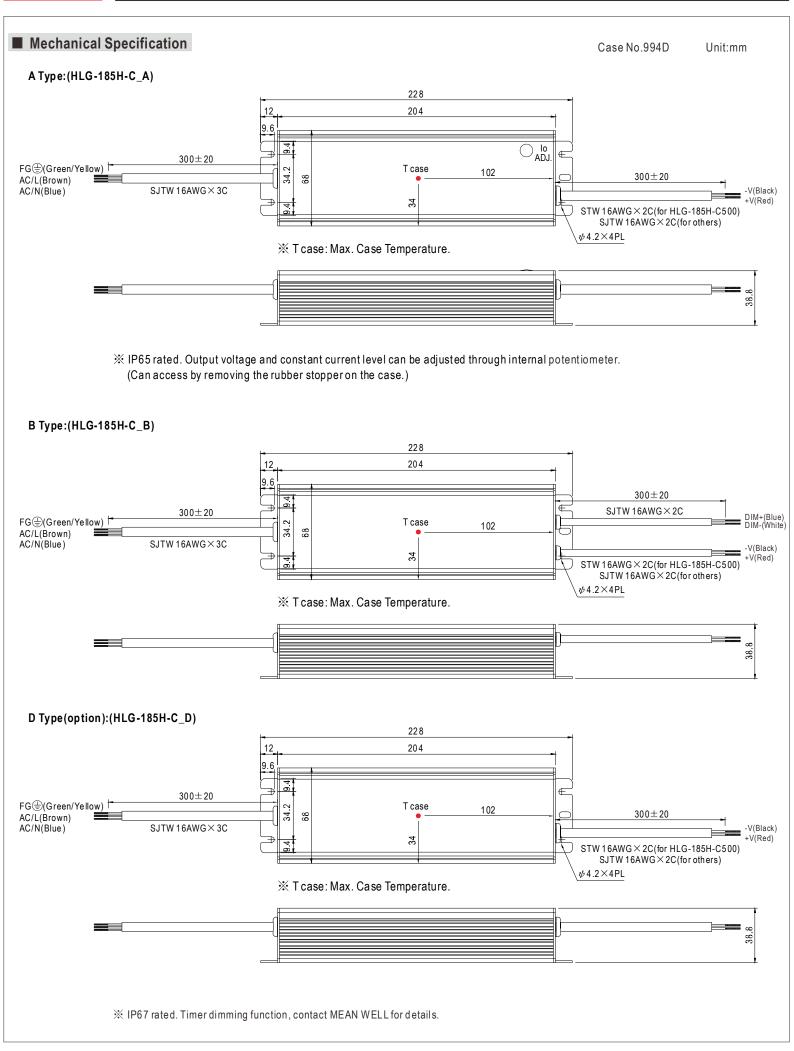
HLG-185H-C500 A A : IP65 rated. Constant current level can be adjusted through internal potentiometer. B : IP67 rated. Constant current level adjustable through output cable with 1~10Vdc or 10V PWM signal or resistance. D (option) : IP67 rated. Timer dimming function, contact MEAN WELL for details.

SPECIFICATION

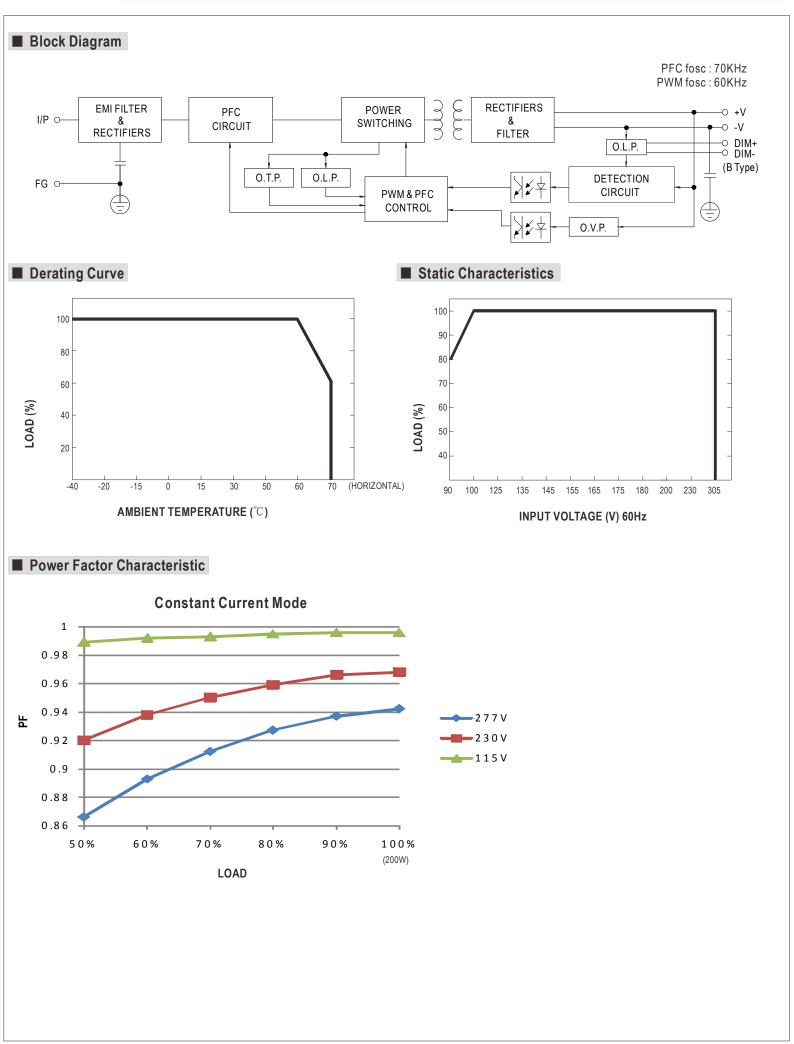
MODEL		HLG-185H-C500	HLG-185H-C700	HLG-185H-C1050	HLG-185H-C1400					
OUTPUT	RATED CURRENT	500mA	700mA	1050mA	1400mA					
	CURRENT ACCURACY	±5.0%								
	CONSTANT CURRENT REGION Note.6	200V ~ 400V	143V ~ 286V	95V ~ 190V	71V ~ 143V					
	RATED POWER	200W	200.2W	199.5W	200.2W					
	RIPPLE CURRENT	±5%	1							
	RIPPLE & NOISE	2Vp-p	1.5Vp-p	1Vp-p	1Vр-р					
		Can be adjusted by internal potentiometer (A type only)								
	CURRENT ADJ. RANGE	250 ~ 500mA 350 ~ 700mA 525 ~ 1050mA 700 ~ 1400mA								
	LINE REGULATION	±1%	±1%	±1%	±1%					
	SETUP, RISE TIME	1000ms, 80ms / 115VAC at full l								
	HOLD UP TIME (Typ.)	16ms at full load 230VAC / 115VAC								
INPUT		90 ~ 305VAC 127VDC ~ 431VDC								
	FREQUENCY RANGE	47~63Hz								
	POWER FACTOR (Typ.)	PF>0.98/115VAC, PF>0.96/230VAC, PF>0.94/277VAC at full load (Please refer to "Power Factor Characteristic" curve)								
	TOTAL HARMONIC DISTORTION									
	EFFICIENCY (Typ.)	94%	94%	94%	94%					
	AC CURRENT (Typ.)	2A / 115VAC 1A / 230VA	C 0.85A / 277VAC							
	INRUSH CURRENT (Typ.)	COLD START 55A(twidth=900, μ s measured at 50% Ipeak) at 230VAC								
	LEAKAGE CURRENT	COLD CIVILITY CONTINUES INCOMPOSITION OF THE CONTINUES								
PROTECTION	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed								
		450 ~ 470V	320 ~ 340V	210~225V	160~170V					
	OVER VOLTAGE	Protection type : Shut down o/								
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down								
ENVIRONMENT	WORKING TEMP.	-40 ~ +70°C (Refer to "Derating Curve")								
	WORKING HUMIDITY	10 ~ 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 STANDARDS Note.3	UL8750, CSA C22.2 No. 250.12-13, ENEC EN61347-1, EN61347-1, EN61347-2-13, EN62384 independent, IP65 or IP67 approved								
SAFETY & EMC	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, EN61000-3-2 Class C (≧50% load) ; EN61000-3-3								
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, heavy industry level (surge L,N-FG: 4KV), criteria A								
OTHERS	MTBF	191.9K 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 special Derating may be needed ur Safety and EMC design ref. The power supply is consid complete installation, the fin Refer to warranty statemen Please refer to "DRIVING M 	arameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. ting may be needed under low input voltages. Please check the static characteristics for more details. ty and EMC design refer to EN60598-1, CNS15233, GB7000.1. power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the plete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.								

7. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains.





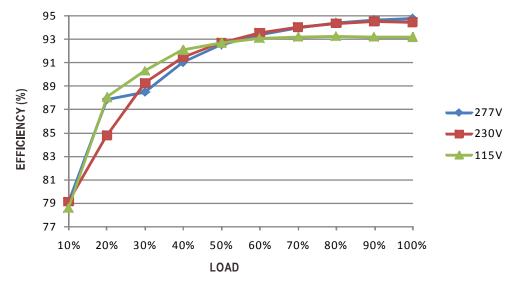






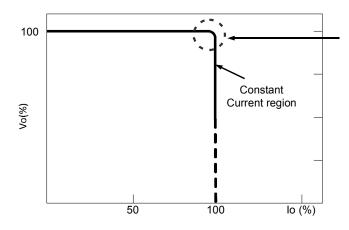
EFFICIENCY vs LOAD (HLG-185H-C700A Model)

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



DRIVING METHODS OF LED MODULE

A typical LED power supply may work in "constant current mode (CC)" to drive the LEDs. Mean Well's LED power supply with CC characteristic can be operated at CC mode (direct drive).



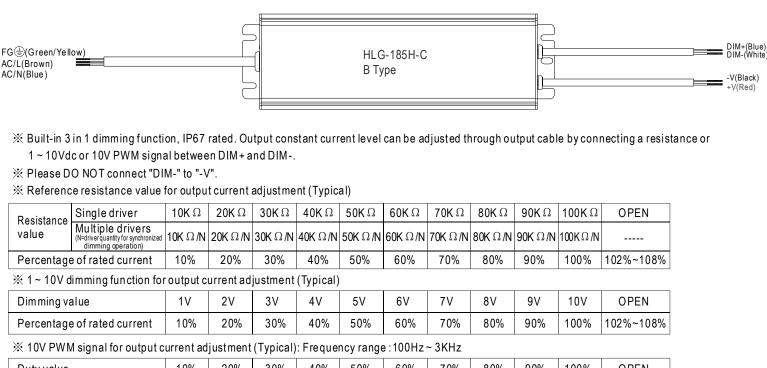
Typical LED power supply I-V curve

In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEAN WELL.



DIMMING OPERATION

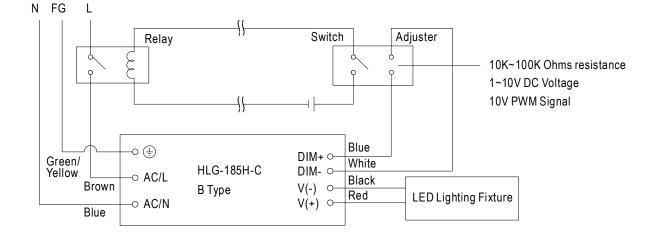


Duty value	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	102%~108%

%Using 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 ON/OFF :



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

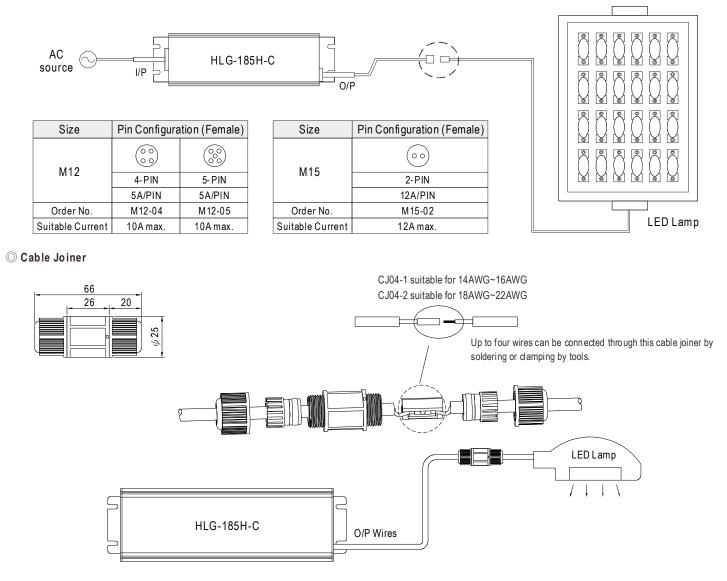
1. Output constant current level can be adjusted through output cable by connecting a resistance or 1~10Vdc or 10V PWM signal between DIM+ and DIM-. 2. The LED lighting fixture can be turned ON/OFF by the switch.



WATERPROOF CONNECTION

 \bigcirc Waterproof connector

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



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