





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.

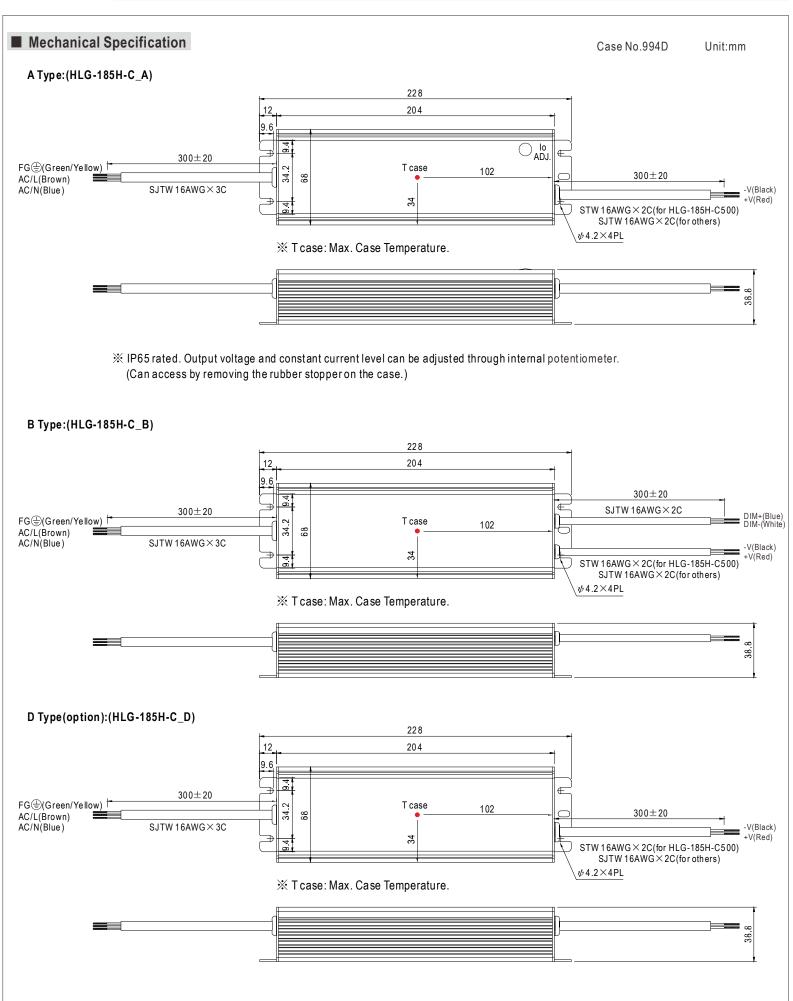
SPECIFICATION

	HLG-185H-C500	HLG-185H-C700	HLG-185H-C1050	HLG-185H-C1400									
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%												
RIPPLE & NOISE	2Vp-p	1.5Vp-p	1Vp-p	1Vp-p									
CURRENT AR L DANCE	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 load 500ms, 80ms / 230VAC at full load												
HOLD UP TIME (Typ.)	6ms at full load 230VAC / 115VAC												
VOLTAGE RANGE Note.2	90 ~ 305VAC 127VDC ~ 431VDC												
FREQUENCY RANGE													
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) THD< 20% when output loading ≥50% at 115VAC/230VAC input and output loading ≥75% at 277VAC input												
TOTAL HARMONIC DISTORTION													
EFFICIENCY (Typ.)	94%	94%	94%	94%									
AC CURRENT (Typ.)	2A / 115VAC 1A / 230VAC 0.85A / 277VAC COLD START 55A(twidth=900μs measured at 50% lpeak) at 230VAC												
INRUSH CURRENT (Typ.)													
LEAKAGE CURRENT	<0.75mA / 277VAC												
SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed												
OVERVOLTAGE	450 ~ 470V	320 ~ 340V	210 ~ 225V	160 ~ 170V									
OVERVOLIAGE	Protection type: Shut down o/p voltage with auto-recovery or re-power on to recovery												
OVER TEMPERATURE													
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	2-13, ENEC EN61347-1, EN6134	7-1, EN61347-2-13, EN62384 in	dependent, IP65 or IP67 approved									
WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2	KVAC O/P-FG:1.5KVAC											
ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M	Ohms / 500VDC / 25°C / 70% R	Н										
EMC EMISSION	Compliance to EN55015, EN610	000-3-2 Class C (≧50% load) ; I	EN61000-3-3										
EMC IMMUNITY				criteria A									
MTBF	191.9K hrs min. MIL-HDBK-2	217F (25°C)	,										
DIMENSION	228*68*38.8mm (L*W*H)												
PACKING	1.15Kg; 12pcs/14.8Kg/0.8CUFT	-											
	CURRENT ACCURACY CONSTANT CURRENT REGION Note.6 RATED POWER RIPPLE CURRENT RIPPLE & NOISE CURRENT ADJ. RANGE LINE REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE POWER FACTOR (Typ.) TOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) AC CURRENT (Typ.) INRUSH CURRENT (Typ.) INRUSH CURRENT SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.3 WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION	### RATED CURRENT 500mA CURRENT ACCURACY ±5.0% CONSTANT CURRENT REGION Note.6 200V ~ 400V RATED POWER 200W RIPPLE CURRENT ±5% RIPPLE & NOISE 2Vp-p CURRENT ADJ. RANGE 250 ~ 500mA LINE REGULATION ±1% SETUP, RISE TIME 1000ms, 80ms / 115VAC at full limits of the first of the fi	RATED CURRENT 500mA 700mA	RATED CURRENT 500mA 700mA 1050mA 1050mA CURRENT ACCURACY ±5.0%									

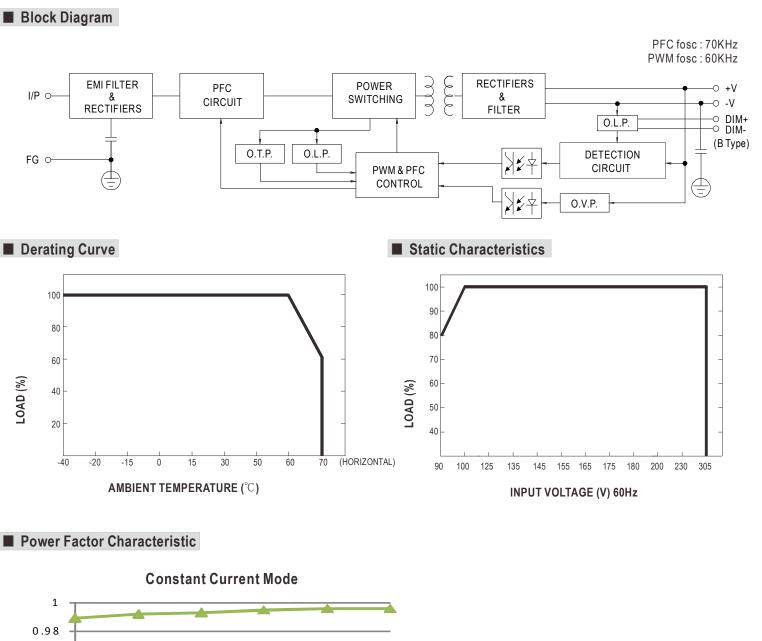
- 2. Derating may be needed under low input voltages. Please check the static characteristics for more details.
- 3. Safety and EMC design refer to EN60598-1, CNS15233, GB7000.1.
- 4. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.
- 5. Refer to warranty statement.
- 6. Please refer to "DRIVING METHODS OF LED MODULE".
- 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.

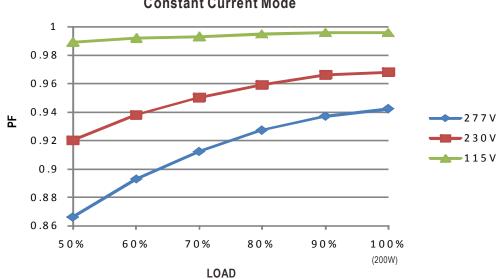
※ IP67 rated. Timer dimming function, contact MEAN WELL for details.





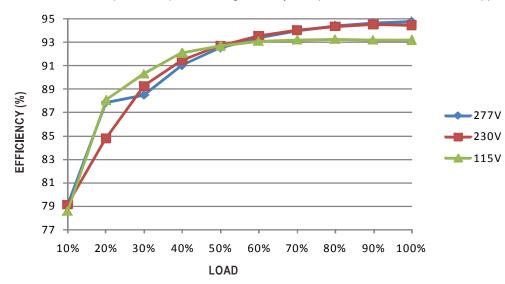






■ EFFICIENCY vs LOAD (HLG-185H-C700A Model)

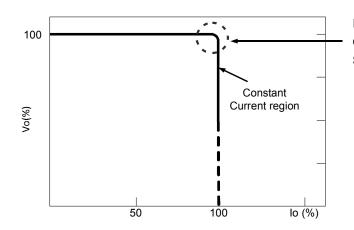
HLG-185H-C series possess superior working efficiency that up to 94% can be reached in field applications.



■ 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).



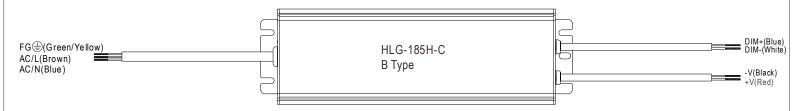
Typical LED power supply I-V curve

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



- Built-in 3 in 1 dimming function, IP67 rated. 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-.
- * Please DO NOT connect "DIM-" to "-V".
- * Reference resistance value for output current adjustment (Typical)

value Multiple drive	Single driver	10K Ω	20K Ω	30K Ω	40K Ω	50K Ω	60K Ω	70K Ω	80K Ω	90ΚΩ	100K Ω	OPEN
	Multiple drivers (N=driverquantity for synchronized dimming operation)	10K Ω/N	20K Ω /N	30K Ω /N	40K Ω/N	50K Ω /N	60K Ω/N	70K Ω/N	80K Ω/N	90K Ω/N	100KΩ/N	
Percentage	e of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	102%~108%

¾ 1 ~ 10V dimming function for output current adjustment (Typical)

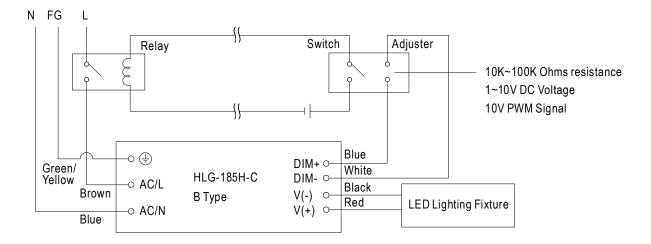
Dimming value	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	102%~108%

¾ 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.
- *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.

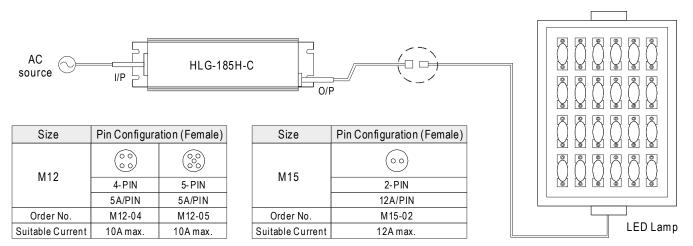
- $1. Output \ constant \ current \ level \ can \ be \ adjusted \ through \ output \ cable \ by \ connecting \ a \ resistance \ or \ 1 \sim 10 \ Vdc \ or \ 10 \ V \ PWM \ signal \ between \ DIM+ \ and \ DIM-.$
- 2. The LED lighting fixture can be turned ON/OFF by the switch.



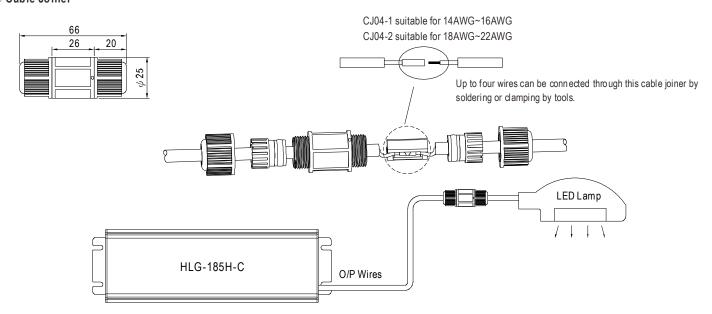
■ WATERPROOF CONNECTION

Waterproof connector

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



O Cable Joiner



※CJ04 cable joiner can be purchased independently for user's own assembly.

MEAN WELL order No.: CJ04-1, CJ04-2.