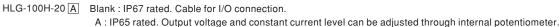
△� CB(€





- Universal AC input / Full range (up to 305VAC)
- · Built-in active PFC function
- High efficiency up to 93%
- 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
- · Class 2 power unit
- Type HL LED Driver for use in Class I, Division 2 hazardous location luminaires
- 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
- 7 years warranty (Note.10)





B: IP67 rated. Constant current level adjustable through output cable with 1~10Vdc or 10V PWM signal or resistance.

M SELV IP65 IP67 🕞 C

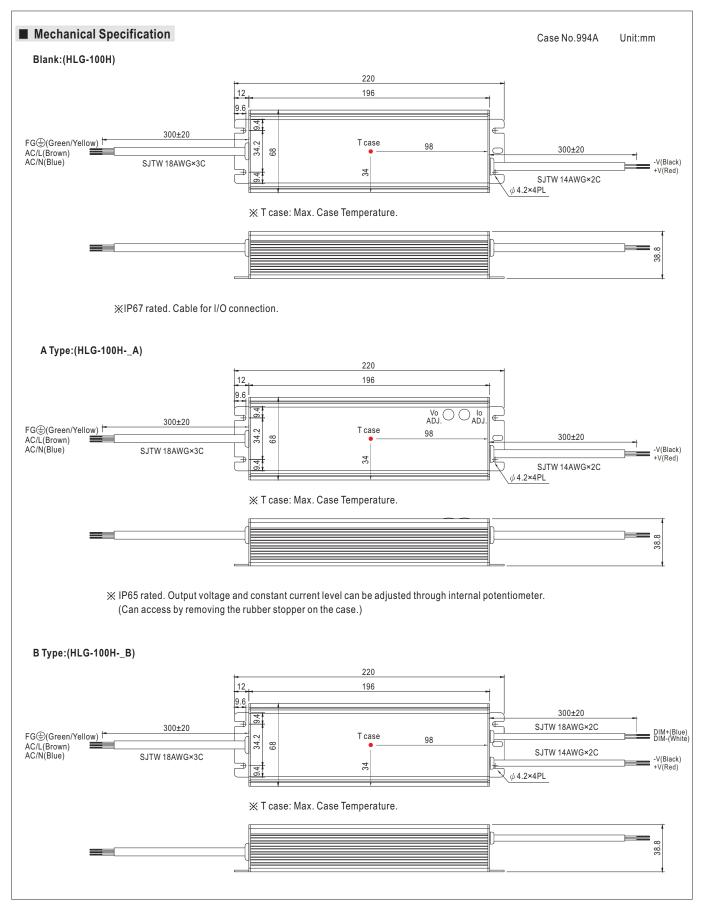
D (option, safety pending): IP67 rated. Timer dimming function, contact MEAN WELL for details.

SPECIFICATION

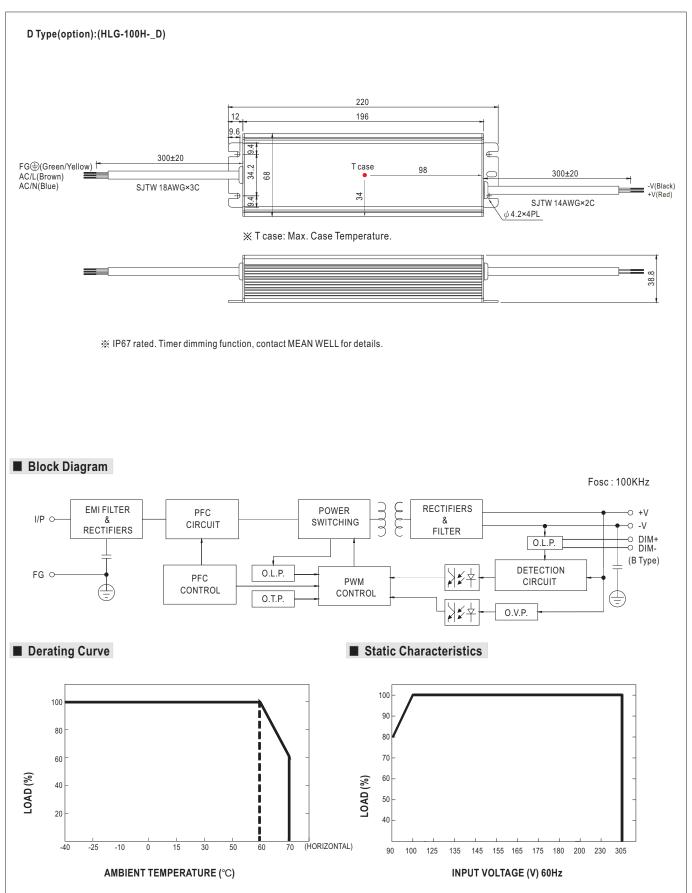
MODEL		HLG-100H-20	HLG-100H-24	HLG-100H-30	HLG-100H-36	HLG-100H-42	HLG-100H-48	HLG-100H-54					
	DC VOLTAGE	20V	24V	30V	36V	42V	48V	54V					
	CONSTANT CURRENT REGION Note.4	10 ~ 20V	12 ~ 24V	15 ~ 30V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V					
	RATED CURRENT	4.8A	4A	3.2A	2.65A	2.28A	2A	1.77A					
	RATED POWER	96W	96W	96W	95.4W	95.76W	96W	95.58W					
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p					
	VOLTAGE ADJ. RANGE Note.6	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		3 ~ 4.8A	2.5 ~ 4A	2 ~ 3.2A	1.65 ~ 2.65A	1.4 ~ 2.28A	1.25 ~ 2A	1.1 ~ 1.77A					
	VOLTAGE TOLERANCE Note.3	±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%					
	LOAD REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%					
	SETUP, RISE TIME Note.8	1200ms,50ms/11	5VAC 500ms,50	ms/230VAC at full	load; B type 1200r	ns,200ms/115VAC	500ms,200ms/2	30VAC at 95% lo					
	HOLD UP TIME (Typ.)	1200ms,50ms/115VAC 500ms,50ms/230VAC at full load ; B type 1200ms,200ms/115VAC 500ms,200ms/230VAC at 95% to 16ms at full load 230VAC /115VAC											
	FREQUENCY RANGE	47 ~ 63Hz											
	POWER FACTOR (Typ.)	PF>0.98/115VAC, PF>0.95/230VAC, PF>0.93/277VAC at full load (Please refer to "Power Factor Characteristic" curve)											
INPUT -	TOTAL HARMONIC DISTORTION	THD< 20% when output loading≧60% at 115VAC/230VAC input and output loading≥75% at 277VAC input											
	EFFICIENCY (Typ.)	93%	93%	93%	93%	93%	93%	93%					
	AC CURRENT (Typ.)	1.2A/115VAC 0.55A/230VAC 0.5A/277VAC											
	INRUSH CURRENT (Typ.)	COLD START 60A(twidth=415µs measured at 50% lpeak) at 230VAC											
	MAX. No. of PSUs on 16A	OSED OTHER OUT HAND INCADING OF DIPERN OF 2007AC											
	CIRCUIT BREAKER	4 units (circuit breaker of type B) / 8 units (circuit breaker of type C) at 230VAC											
	LEAKAGE CURRENT	<0.75mA/277VA											
	OVED CURRENT	95 ~ 106%											
	OVER CURRENT	Protection type: Constant current limiting, recovers automatically after fault condition is removed											
	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed											
ROTECTION		23 ~ 27V	28 ~ 34V	34 ~ 38V	41 ~ 46V	47 ~ 53V	54 ~ 63V	59 ~ 65V					
	OVER VOLTAGE	Protection type :	Shut down o/p volta	age with auto-reco	very or re-power on	to recovery							
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down											
	WORKING TEMP.	-40 ~ +70°C (Refer to "Derating Curve")											
	WORKING HUMIDITY	20 ~ 95% RH non-condensing											
NVIRONMENT	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(type"HL"), CSA C22.2 No. 250.0-08, EN61347-1, EN61347-2-13 independent IP65 or IP67, J61347-1, J61347-2-13 approved											
	SAFETY STANDARDS Note.7	design refer to UL60950-1, TUV EN60950-1											
CAFFTV 0	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC											
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH											
MC	EMC EMISSION	Compliance to El	N55015, EN55022	(CISPR22) Class E	B, EN61000-3-2 Cla	ss C (≧60% 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											
	MTBF	192.2Khrs min. MIL-HDBK-217F (25°C)											
OTHERS	DIMENSION	220*68*38.8mm (L*W*H)											
	PACKING	1.12Kg; 12pcs/14.4Kg/0.74CUFT											
	1. All parameters NOT enoughly martiaged are measured at 220VAC input rated lead and 25°C of ambient temperature												
NOTE	Ripple & noise are measure Tolerance : includes set up Please refer to "DRIVING N	d at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. olerance, line regulation and load regulation.											

- 7. Safety and EMC design refer to EN60598-1, CNS15233, GB7000.1, FCC part18.
- 8. 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.
- 10. Refer to warranty statement.
- 11. 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



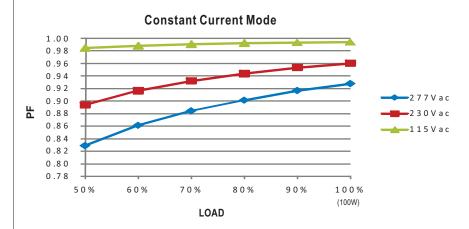






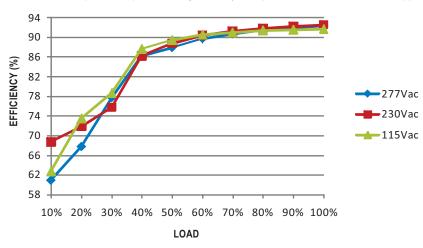


■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (48V Model)

HLG-100H series possess superior working efficiency that up to 93% can be reached in field applications.

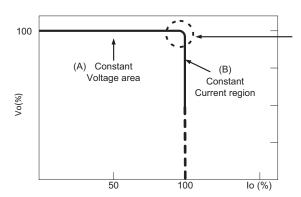


■ DRIVING METHODS OF LED MODULE

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).



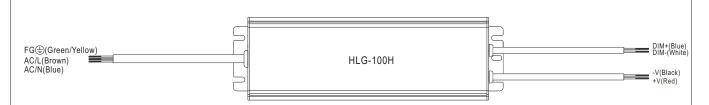
Typical LED power supply I-V curve

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(for B-type only)



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

Resistance	Single driver	10ΚΩ	20ΚΩ	30ΚΩ	40ΚΩ	50ΚΩ	60ΚΩ	70ΚΩ	80ΚΩ	90ΚΩ	100ΚΩ	OPEN
value	Multiple drivers (N=driver quantity for synchronized dimming operation)	10KΩ/N	20KΩ/N	30KΩ/N	40KΩ/N	50KΩ/N	60KΩ/N	70KΩ/N	80KΩ/N	90KΩ/N	100KΩ/N	
Percentage	e of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

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

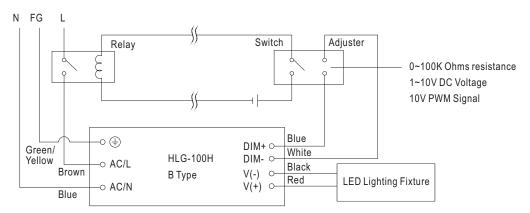
Dimming value	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

* 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%	95%~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.
- $\fint \fint \fin$

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



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

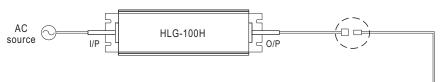
- 1.Output constant current level can be adjusted through output cable by connecting a resistance or 1~10Vdc or 10V PWM signal between DIM+ and DIM-.
- 2. The LED lighting fixture can be turned ON/OFF by the switch.



■ WATERPROOF CONNECTION

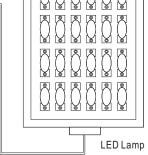
 $\bigcirc \ \ Waterproof connector$

 $Waterproof connector \ can be \ assembled \ on \ the \ output \ cable \ of \ HLG-100H \ to \ operate \ in \ dry/wet/damp \ or \ outdoor \ environment.$

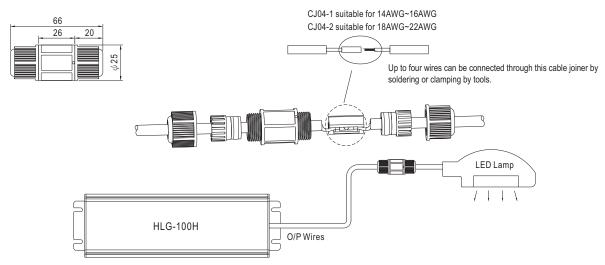


Size	Pin Configuration (Female					
M12	000	000				
IVI 12	4-PIN	5-PIN				
	5A/PIN	5A/PIN				
Order No.	M12-04	M12-05				
Suitable Current	10A max.	10A max.				

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



O Cable Joiner



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

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

