



Features:

- Universal AC input / Full range
- · Built-in active PFC function
- High efficiency up to 93.5%
- 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)









M SELV IP65 IP67 🕞 🔁 us 😩 📰









HLG-100-20 A

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

A: IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.

 $B: IP67\ rated.\ Constant\ current\ level\ adjustable\ through\ output\ cable\ with\ 1\sim10Vdc\ or\ 10V\ PWM\ signal\ or\ resistance.$

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

SPECIFICATION

MODEL		HLG-100-20	HLG-100-24	HLG-100-30	HLG-100-36	HLG-100-42	HLG-100-48	HLG-100-54						
	DC VOLTAGE	20V	24V	30V	36V	42V	48V	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.5	17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	38 ~ 46V	43 ~ 53V	49 ~ 58V						
	AUDDENT AD L DANIGE	Can be adjusted b	y internal potention	neter or through o	itput cable									
OUTPUT	CURRENT ADJ. RANGE	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.7	2500ms, 50ms at	full load 230VAC	/ 115VAC ; B typ	e 2500ms, 200ms a	it 95% load 230\	/AC / 115VAC	•						
	HOLD UP TIME (Typ.)	16ms at full load	16ms at full load 230VAC /115VAC											
	VOLTAGE RANGE Note.4	90 ~ 264VAC	127 ~ 370VDC											
	FREQUENCY RANGE	47 ~ 63Hz												
	POWER FACTOR (Typ.)	PF>0.98/115VAC	PF>0.95/230VAC	(Please refer to "P	ower Factor Charac	teristic" curve)								
INPUT	EFFICIENCY (Typ.)	93.5%	93.5%	93.5%	93.5%	93.5%	93.5%	93.5%						
	AC CURRENT (Typ.)	1.2A / 115VAC	0.55A / 230VAC											
	INRUSH CURRENT (Typ.)	COLD START 75A/230VAC												
	LEAKAGE CURRENT	<0.75mA / 240VAC												
	OVER CURRENT	95 ~ 106%												
		Protection type: Constant current limiting, recovers automatically after fault condition is removed												
	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed												
PROTECTION		23 ~ 27V	28 ~ 34V	34 ~ 38V	41 ~ 46V	47 ~ 53V	54 ~ 60V	59 ~ 65V						
	OVER VOLTAGE	Protection type :	Shut down o/p volta	ige with auto-recov	ery or re-power on	to recovery		•						
		100°C ±10°C (RTH2)												
	OVER TEMPERATURE	Protection type: 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	,										
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~												
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 5												
	VIBRATION		2min./1cycle, perio	d for 72min, each	along X. Y. Z axes									
		-			•	r IP67 approved · De	sign refer to UI 6095	0-1 TUV FN6095						
	WITHSTAND VOLTAGE	UL8750, EN61347-1, EN61347-2-13 independent, J61347-1, J61347-2-13, IP65 or IP67 approved; Design refer to UL60950-1, TUV EN60950-1/P-O/P:3.75KVAC I/P-FG:1.88KVAC O/P-FG:0.5KVAC												
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH												
EMC	EMC EMISSION					ss C (>60% load)	· EN61000-3-3							
	EMC IMMUNITY	Compliance to EN55015, EN55022 (CISPR22) Class B, EN61000-3-2 Class C (≥ 60% load) ; EN61000-3-3 Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, heavy industry level (surge 4KV), criteria A												
	MTBF	192.2Khrs min.	MIL-HDBK-217F		100021, 110017 11100	iotry lover (ourgo in	itty, ontonavi							
OTHERS	DIMENSION		220*68*38.8mm (L*W*H)											
O I II LIKO	PACKING	1.12Kg; 12pcs/14	·											
		0. 1	•	AC input, rated loa	d and 25°C of am	pient temperature								
NOTE	Ripple & noise are measure Tolerance : includes set up Derating may be needed ur Type A only.	y mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. d at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. tolerance, line regulation and load regulation. der low input voltages. Please check the static characteristics for more details. er to EN60598-1, CNS15233, GB7000.1, FCC part18.												

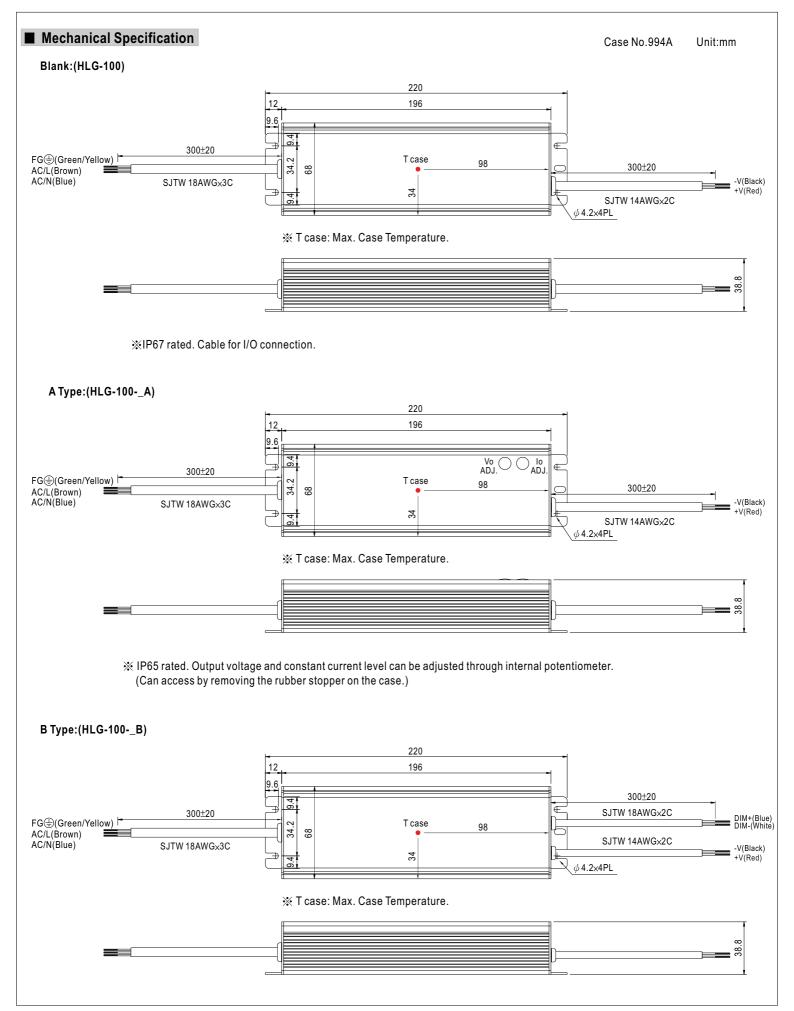
7. Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time.

complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.

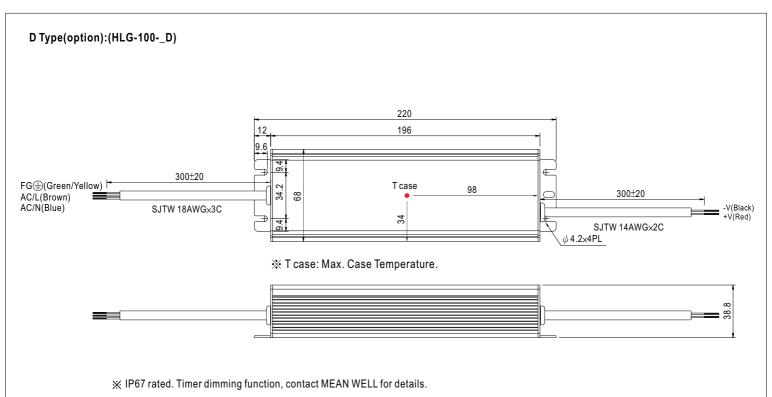
9. Refer to warranty statement.

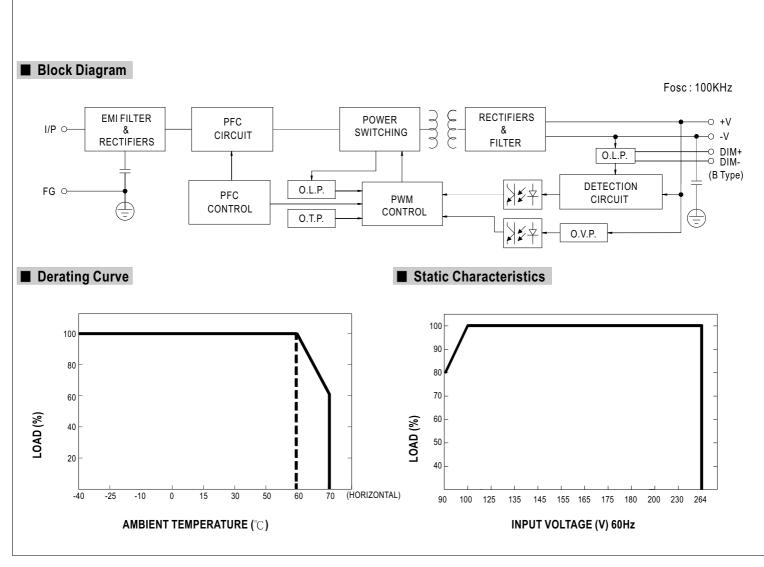
8. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the





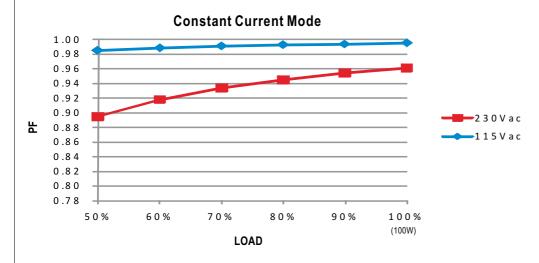






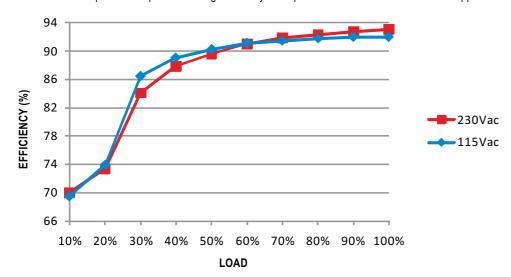


■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (48V Model)

HLG-100 series possess superior working efficiency that up to 93.5% can be reached in field applications.

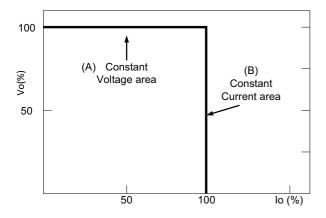


■ DRIVING METHODS OF LED MODULE

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.

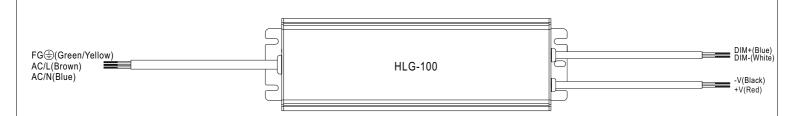
Mean Well's LED power supply with CV+ CC characteristic can be operated at both CV mode (with LED driver, at area (A) and CC mode (direct drive, at area (B).



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

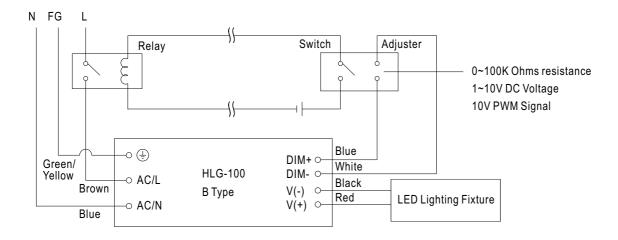
Dimming value	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	102%~108%

* 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.

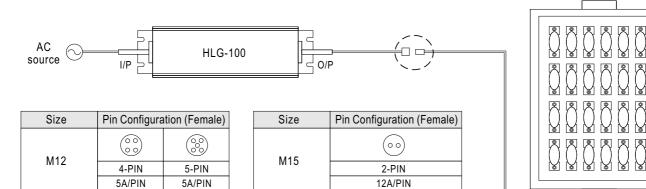
LED Lamp



■ WATERPROOF CONNECTION

Waterproof connector

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



Order No.

Suitable Current

O Cable Joiner

Order No.

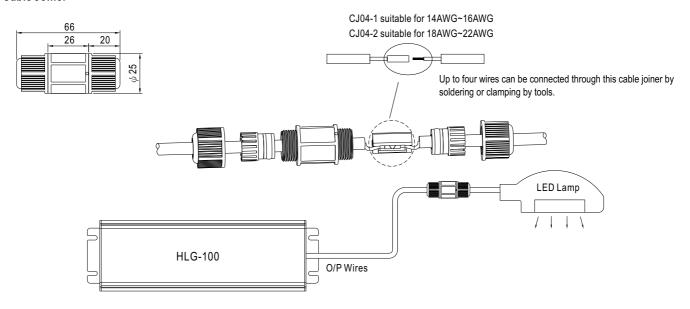
Suitable Current

M12-04

10A max

M12-05

10A max.



M15-02

12A max

