

100W Single Output Switching Power Supply



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Features :

- 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

HLG-100H series

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- 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
- 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.10) W SELV IP65 IP67 C C Lus



HLG-100H-20 A Blank : IP67 rated. Cable for I/O connection.

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

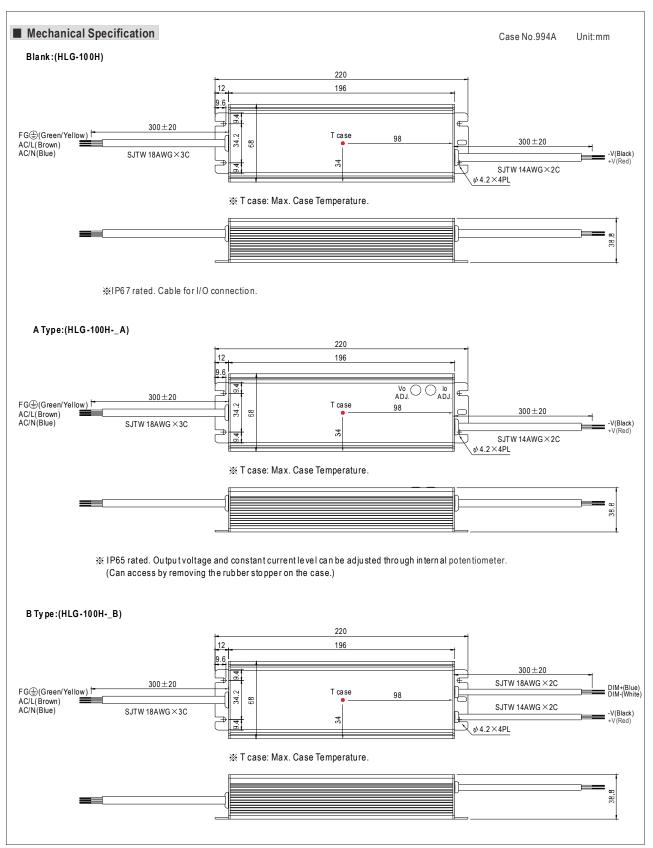
- B : IP67 rated. Constant current level adjustable through output cable with 1~10Vdc or 10V PWM signal or resistance.
- D (option, safety pending) : IP67 rated. Timer dimming function, contact MEAN WELL for details.

SPECIFICATION

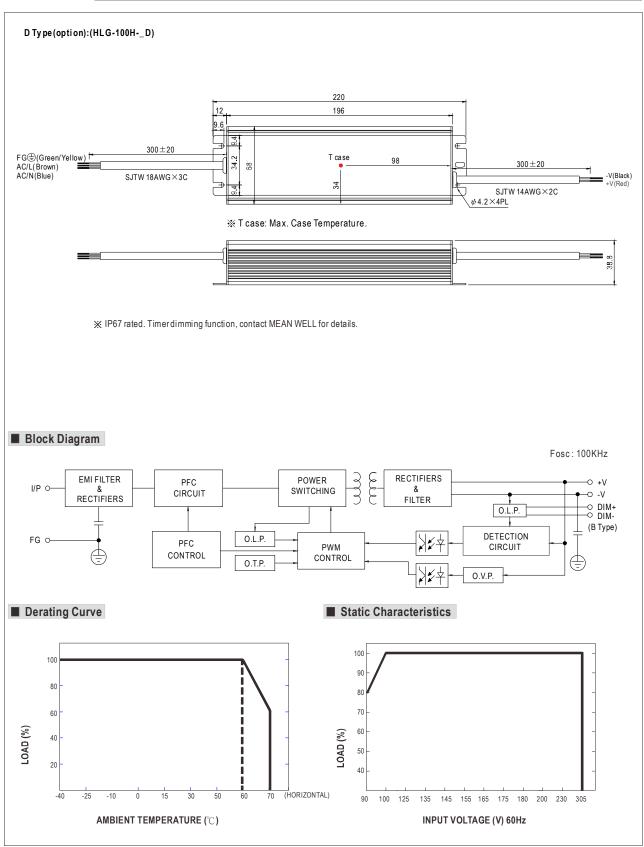
MODEL		HLG-100H-20	HLG-100H-24	HLG-100H-30	HLG-100H-36	HLG-100H-42	HLG-100H-48] HLG-100H-54[
	DC VOLTAGE	20V	24V	30V	36V	42V	48V	54V
OUTPUT	CONSTANT CURRENT REGION Note.4	10~20V	12~24V	15~30V	18~36V	21~42V	24 ~ 48V	27~54V
	RATED CURRENT	4.8A	4A	3.2A	2.65A	2.28A	2A	1.77A
	RATED POWER	96W	96W	96W	95.4W	95.76W	96W	95.58W
	RIPPLE & NOISE (max.) Note.2		150mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p
	VOLTAGE ADJ. RANGE Note.6		22 ~ 27V	27 ~ 33V	33 ~ 40V	38 ~ 46V	43 ~ 53V	49 ~ 58V
		Can be adjusted by internal potentiometer A type only						
	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%
	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%
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		2500ms, 50ms at full load 230VAC / 115VAC ; B type 2500ms, 200ms at 95% load 230VAC / 115VAC 16ms at full load 230VAC / 115VAC						
	HOLD UP TIME (Typ.)							
		90 ~ 305VAC 127 ~ 431VDC						
	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)						
	TOTAL HARMONIC DISTORTION							
	EFFICIENCY (Typ.)	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=415µ s measured at 50% Ipeak) at 230VAC						
	LEAKAGE CURRENT	<0.75mA/277VAC						
PROTECTION	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						
	OVER VOLTAGE	23 ~ 27V	28 ~ 34V	34 ~ 38V	41 ~ 46V	47 ~ 53V	54 ~ 63V	59 ~ 65V
	OVER VOLIAGE	Protection type : 3	Shut down o/p volta	age with auto-recov	ery or re-power on	to recovery		
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down						
ENVIRONMENT	WORKING TEMP.	-40 ~ +70 $^\circ \rm C$ (Refer to "Derating Curve")						
	WORKING HUMIDITY	20 ~ 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						
		UL8750. 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						
SAFETY &								
EMC	ISOLATION RESISTANCE	I/P-O/P. I/P-FG. O/P-FG:100M Ohms / 500VDC / 25°C/70% RH						
	EMC EMISSION	Compliance to EN55015, EN55022 (CISPR22) Class B, EN61000-3-2 Class 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	192.2K hrs min. MIL-HDBK-217F (25° C)						
OTHERS	DIMENSION	220*68*38.8mm (L*W*H)						
	PACKING	1.12Kg; 12pcs/14						
NOTE	 All parameters NOT special Ripple & noise are measure Tolerance : includes set up Please refer to "DRIVING N Derating may be needed ur A type only. Safety and EMC design refe Length of set up time is me The power supply is consid 	III mentioned are measured at 230VAC input, rated load and 25 [°] C of ambient temperature. ed 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. <i>M</i> ETHODS OF LED MODULE". nder low input voltages. Please check the static characteristics for more details. er to EN60598-1, CNS15233, GB7000.1, FCC part18. wasured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. lered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the nal equipment manufacturers must re-qualify EMC Directive on the complete installation again.						



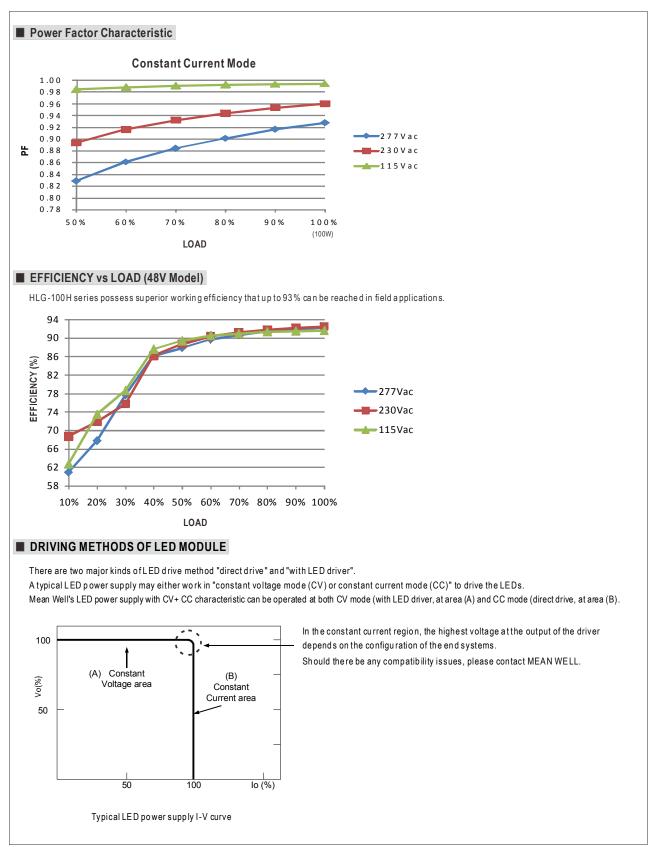
HLG-100H series



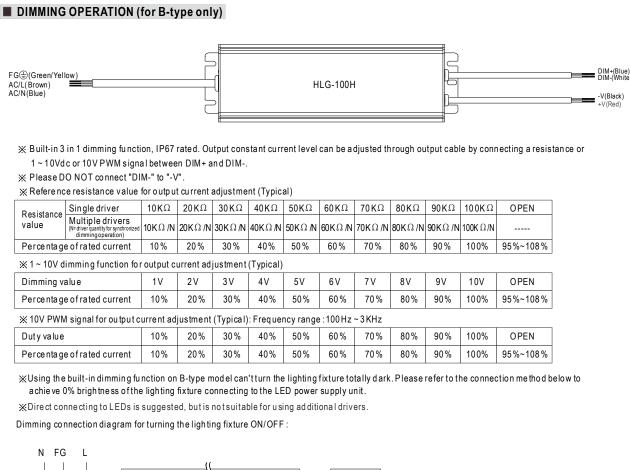


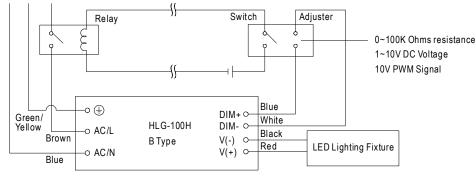








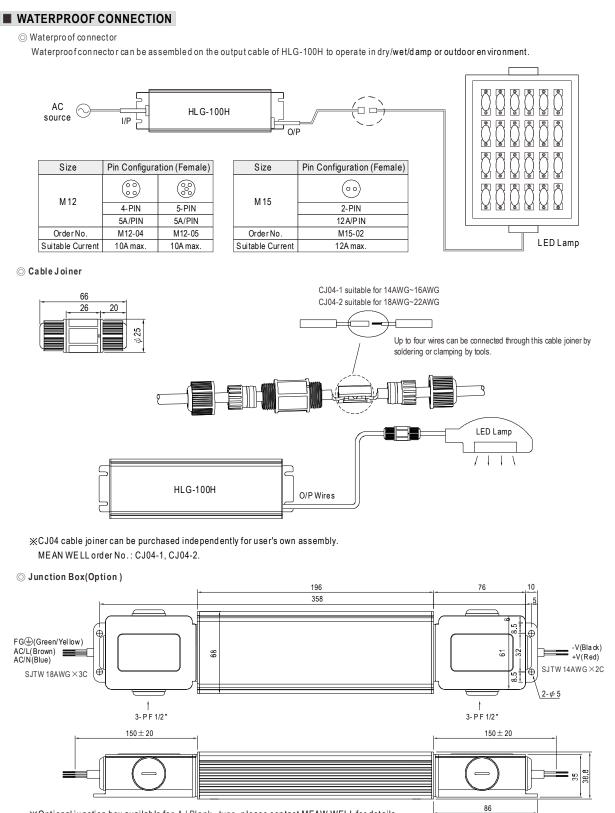




Using a switch and relay can turn ON/OFF the lighting fixture.

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





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