MIRRORSTONE

Data Sheet

HLG 120W 0-10v Dimmable Driver

Product Features

- IP67 design for indoor or outdoor installations
- Built-in 3 in 1 dimming function (1~10VDC, PWM signal, or resistance)
- 5 years warranty
- Protections: Short circuit / Over current / Over voltage /Over temperature
- Universal AC input (up to 305VAC) / Full range
- High efficiency up to 95%
- Output current adjustable through output cable or internal potentiometer
- Cooling by free air convection
- Suitable for LED lighting and street lighting applications
- Meet 4KV surge immunity level (IEC61000-4-5)
- Optional CQC models available
- Built-in active PFC, PF>0.9 for 60% of load or higher

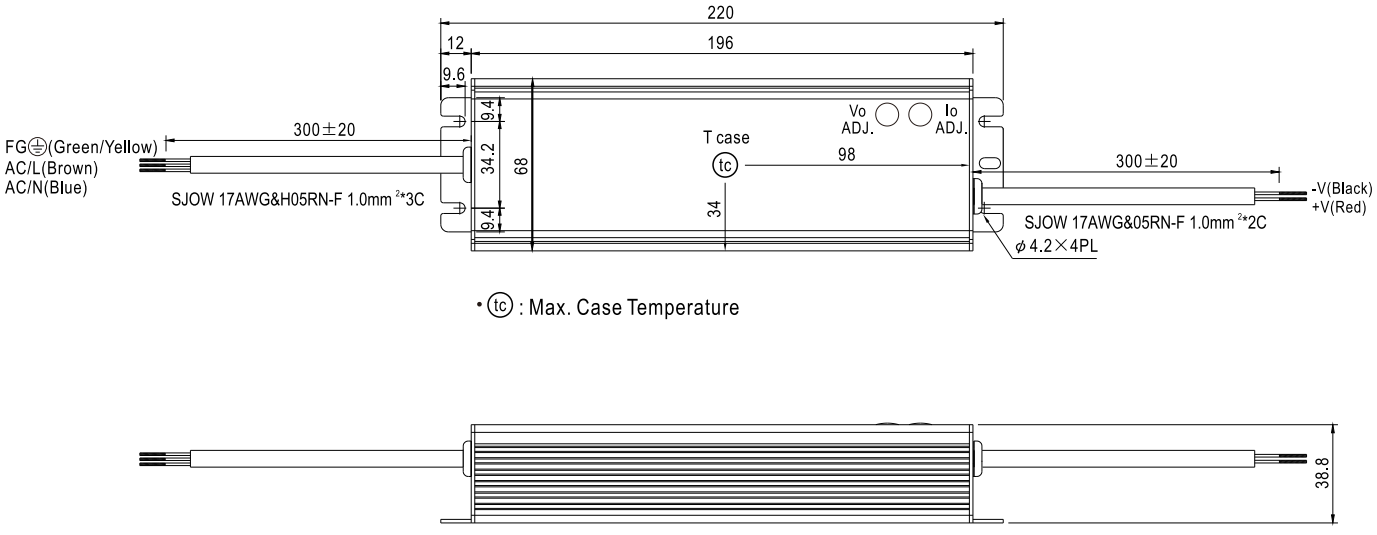
CE SELV IP66

Product Description

If you're looking for something that will power your 1-10V dimming systems, then you've come to the right place – Mean Well's 25W 1-10V Constant Voltage LED Driver is well up to the task.

Technical Dimensions

※A-Type



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Technical Specifications

OUTPUT	DC VOLTAGE	12V
	CONSTANT CURRENT REGION Note.4	6 ~12V
	RATED CURRENT	10A
	RATED POWER	120W
	RIPPLE & NOISE (max.) Note.2	150mVp-p
	VOLTAGE ADJ. RANGE	Adjustable for A/AB-Type only (via built-in potentiometer)
		10.8 ~ 13.5V
	CURRENT ADJ. RANGE	Adjustable for A/AB-Type only (via built-in potentiometer)
		5 ~ 10A
	VOLTAGE TOLERANCE Note.3	±2.5%
	LINE REGULATION	±0.5%
	LOAD REGULATION	±2.0%
	SETUP, RISE TIME Note.6	1200ms,50ms/115VAC 500ms,50ms/230VAC
	HOLD UP TIME (Typ.)	12ms / 115VAC, 230VAC
INPUT	VOLTAGE RANGE Note.5	90 ~ 305VAC 127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)
	FREQUENCY RANGE	47 ~ 63Hz
	POWER FACTOR (Typ.)	PF≧0.98/115VAC, PF≧0.95/230VAC, PF≧0.93/277VAC @ full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)
	TOTAL HARMONIC DISTORTION	THD< 20% (@ load≧50% / 115VAC,230VAC; @ load≧75% / 277VAC) (Please refer to "TOTAL HARMONIC DISTORTION (THD)" section)
	EFFICIENCY (Typ.)	92%
	AC CURRENT (Typ.)	1.4A / 115VAC 0.6A / 230VAC 0.55A / 277VAC
	INRUSH CURRENT (Typ.)	COLD START 60A(t_{width}=375μs measured at 50% I_{peak}) at 230VAC; Per NEMA 410
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	5 units (circuit breaker of type B) / 9 units (circuit breaker of type C) at 230VAC
	LEAKAGE CURRENT	<0.75mA / 277VAC
PROTECTION	OVER CURRENT	95 ~ 108%
		Constant current limiting, recovers automatically after fault condition is removed
	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed
	OVER VOLTAGE	14 ~ 17V
		Shut down o/p voltage with auto-recovery or re-power on to recovery
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down
ENVIRONMENT	WORKING TEMP.	Tcase= -40 ~ +80℃ (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)
	MAX. CASE TEMP.	Tcase= +80℃
	WORKING HUMIDITY	20 ~ 95% RH non-condensing
	STORAGE TEMP., HUMIDITY	-40 ~ +80℃, 10 ~ 95% RH
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 60℃)
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes
SAFETY & EMC	SAFETY STANDARDS Note.8	UL8750(type"HL"), CSA C22.2 No. 250.0-08, EN/AS/NZS 61347-1, EN/AS/NZS 61347-2-13 independent;GB19510.1,GB19510.14, IP65 or IP67, J61347-1, J61347-2-13(except for B,AB and D-type),BIS IS15885(for 12B,24B,36A,54A only), EAC TP TC 004, KC61347-1,KC61347-2-13(except for D-type) approved
	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℃/ 70% RH
	EMC EMISSION Note.8	Compliance to EN55015, EN55032 Class B, EN61000-3-2 Class C (@ load≧50%) ; EN61000-3-3,GB17743 and GB17625.1, EAC TP TC 020
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge immunity Line-Earth 4KV, Line-Line 2KV),EAC TP TC 020
OTHERS	MTBF	559.5K hrs min. Telcordia SR-332 (Bellcore); 167.1Khrs min. MIL-HDBK-217F (25℃)
	DIMENSION	220*68*38.8mm (L*W*H)
	PACKING	1.12Kg; 12pcs/14.4Kg/0.8CUFT
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25℃ of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. Please refer to "DRIVING METHODS OF LED MODULE". 5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 6. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. 7. The driver 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. 8. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED driver can only be used behind a switch without permanently connected to the mains. 9. This series meets the typical life expectancy of >62,000 hours of operation when Tcase, particularly (tc) point (or TMP, per DLC), is about 75℃ or less. 10. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com 11. The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft). 12. For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/Upload/PDF/LED_EN.pdf ※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx	

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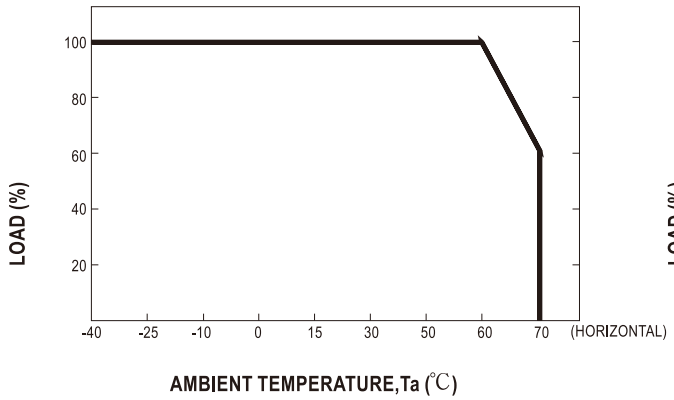
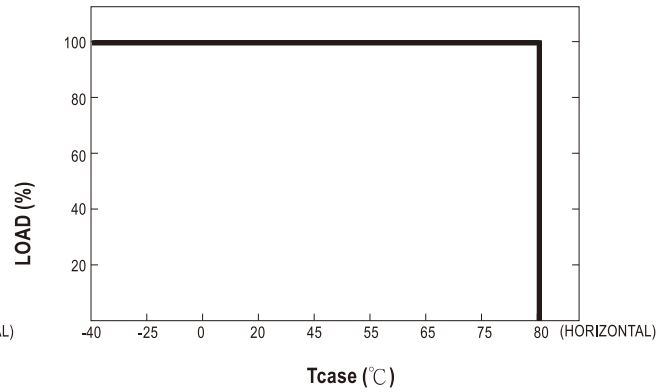
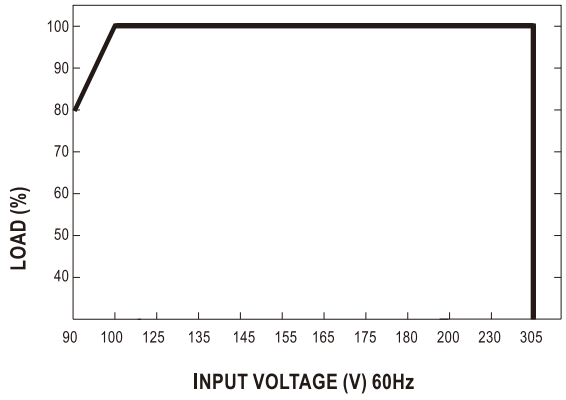
Output Load vs Temperature





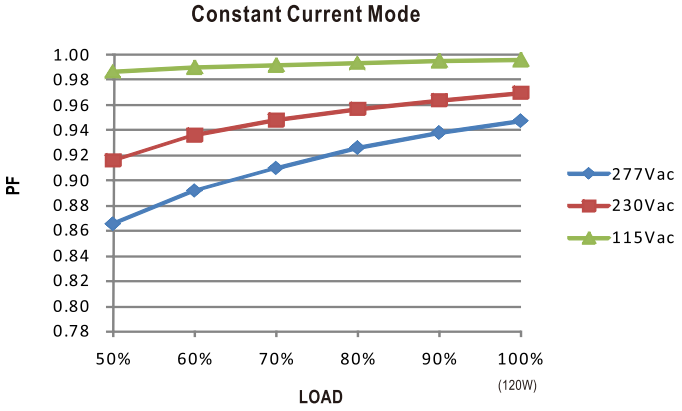
Static Characteristic



※ De-rating is needed under low input voltage.

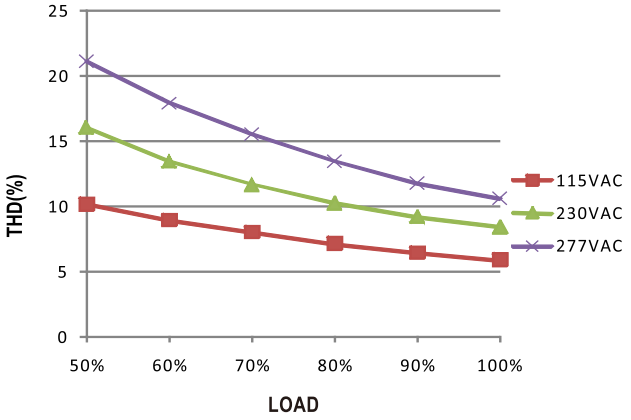
Power Factor(PF) Characteristic

※ Tcase at 70℃



Total Harmonic Distortion

※ 48V Model, Tcase at 70℃



Efficiency vs Load

HLG-120H series possess superior working efficiency that up to 93.5% can be reached in field applications.

※ 48V Model, Tcase at 70℃