MIRRORSTONE

Data Sheet

Mean Well HLG-480H 240V-24V Transformer

Product Features

- Constant Voltage + Constant Current mode output
- Metal housing with class Ⅰ design
- IP67 / IP65 rating for indoor or outdoor installations
- Function options: output adjustable via potentiometer; 3 in 1 dimming
- Typical lifetime > 62000 hours
- 7 years warranty

Applications

- LED street lighting
- LED high-bay lighting
- Parking space lighting
- LED fishing lamp
- LED greenhouse lighting
- Type "HL" for use in Class Ⅰ , Division 2 hazardous (Classified) location.

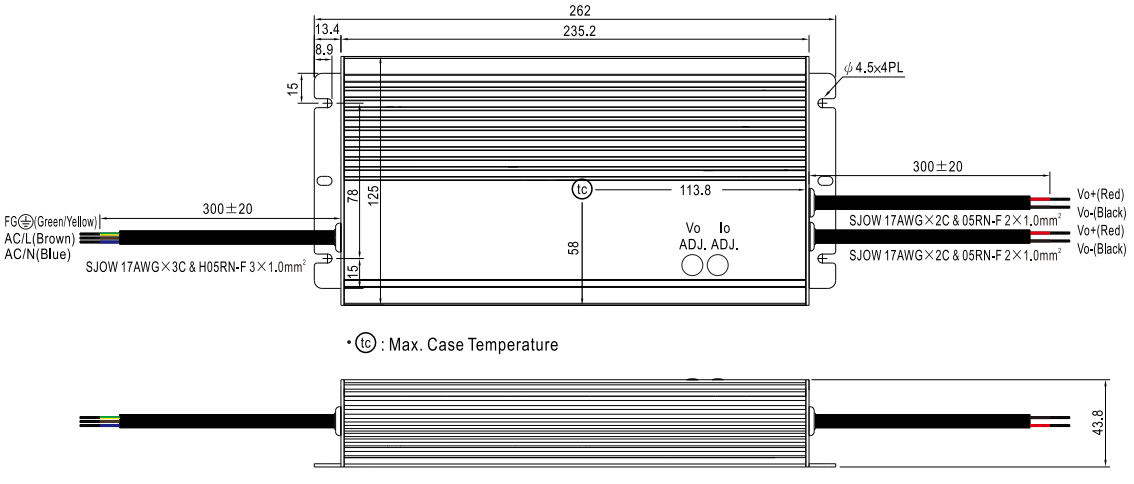
SELV IP65 IP67 (except for AB,C,D-type) (except for B/AB/D-type)

(except for C-type) IS 15885(Part 2/Sec13) R-41027766 (for 48V only) Type HL

Introducing NeoPower

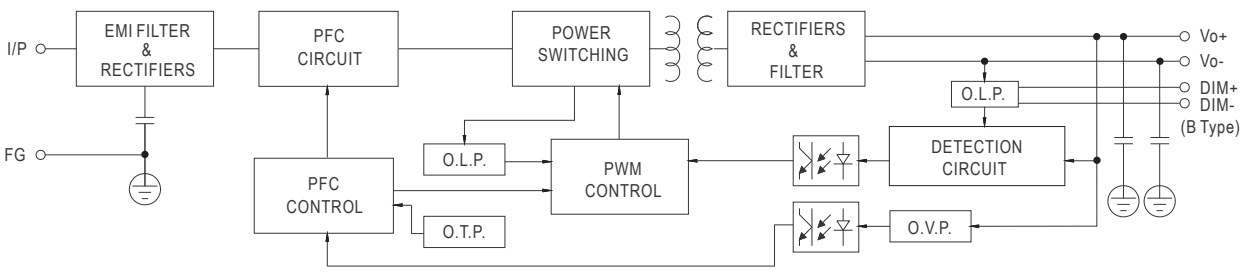
Created by Mean Well is the NeoPower Mean Well 185w HLG-185H 240v-24v Transformer. It 'steps down' the 240V AC into a 24V DC, meaning it is only compatible with our 24V tape selections.

Technical Dimensions



• tc : Max. Case Temperature

PFC fosc : 45KHz
PWM fosc : 55KHz



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Technical Specifications

OUTPUT	DC VOLTAGE		24V
	CONSTANT CURRENT REGION Note.4		12 ~ 24V
	RATED CURRENT		20A
	RATED POWER		480W
	RIPPLE & NOISE (max.) Note.2		200mVp-p
	VOLTAGE ADJ. RANGE		Adjustable for A/AB-Type only (via built-in potentiometer)
			20.4 ~ 25.2V
	CURRENT ADJ. RANGE		Adjustable for A/AB-Type only (via built-in potentiometer)
			10 ~ 20A
	VOLTAGE TOLERANCE Note.3		±1.0%
	LINE REGULATION		±0.5%
	LOAD REGULATION		±0.5%
	SETUP, RISE TIME Note.6		500ms, 80ms 115VAC/230VAC
	HOLD UP TIME (Typ.)		16ms 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≧0.97/230VAC, PF≧0.95/277VAC @ full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)
	TOTAL HARMONIC DISTORTION		THD< 20% (@ load≧40% / 115VAC,230VAC,277VAC) (Please refer to "TOTAL HARMONIC DISTORTION (THD)" section)
	EFFICIENCY (Typ.)	230VAC	94%
		277VAC	94.5%
	AC CURRENT (Typ.)		5A / 115VAC 2.45A / 230VAC 2A / 277VAC
	INRUSH CURRENT(Typ.)		COLD START 35A(t_{width}=1800μs measured at 50% I_{peak}) at 230VAC; Per NEMA 410
	LEAKAGE CURRENT		<0.75mA / 277VAC
	MAX. NO. of PSUs on 16A CIRCUIT BREAKER		2unit(circuit breaker of type B) / 3units(circuit breaker of type C) at 230VAC
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		27 ~ 33V
			Shut down output voltage, re-power on to recovery
	OVER TEMPERATURE		Shut down output voltage, re-power on to recovery
ENVIRONMENT	WORKING TEMP.		Tcase= -40 ~ +90℃ (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)
	MAX. CASE TEMP.		Tcase= +90℃
	WORKING HUMIDITY		20 ~ 95% RH non-condensing
	STORAGE TEMP., HUMIDITY		-40 ~ +80℃, 10 ~ 95% RH non-condensing
	TEMP. COEFFICIENT		±0.02%/℃ (0 ~ 60℃)
	VIBRATION		10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes
SAFETY & EMC	SAFETY STANDARDS		UL8750(type"HL"), CSA C22.2 No. 250.13-12; ENEC EN61347-1, EN61347-2-13 independent, EN62384; GB19510.14, GB19510.1;IP65 or IP67, EAC TP TC 004,AS/NZS IEC 61347.2.13:2013,AS/NZS 61347.1:2016;KC61347-1,KC61347-2-13 (except for AB,Dx,D2-type), J61347-1(H29), J61347-2-13(H29)(for Blank/A-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		Compliance to EN55015, EN61000-3-2 Class C (@ load≧50%) ; EN61000-3-3;GB17743, GB17625.1, EAC TP TC 020; KC KN15,KN61547(except for AB,Dx,D2-type),J55015(H29)(for Blank/A-type)
	EMC IMMUNITY		Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, light industry level (surge immunity Line-Earth 4KV, Line-Line 2KV), EAC TP TC 020;KC KN15,KN61547(except for AB,Dx,D2-type),J55015(H29)(for Blank/A-type)
OTHERS	MTBF		345.5K hrs min. Telcordia SR-332(Bellcore) ; 95.3K hrs min. MIL-HDBK-217F (25℃)
	DIMENSION		262*125*43.8mm (L*W*H)

NOTES

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

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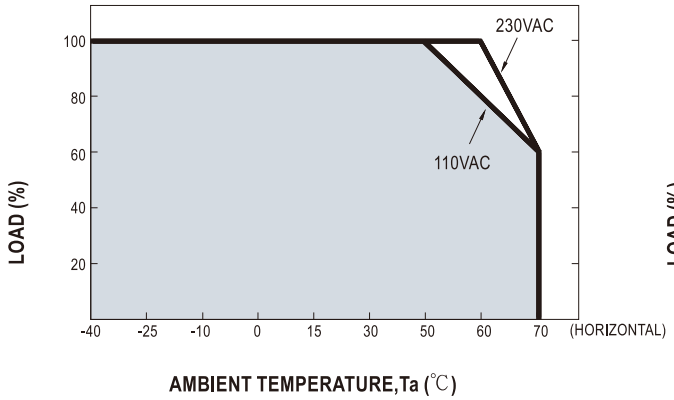
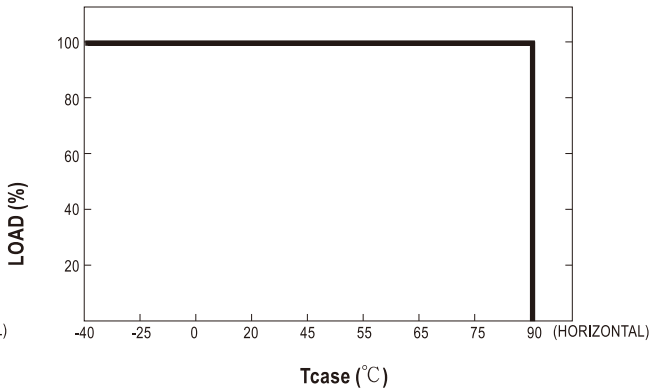
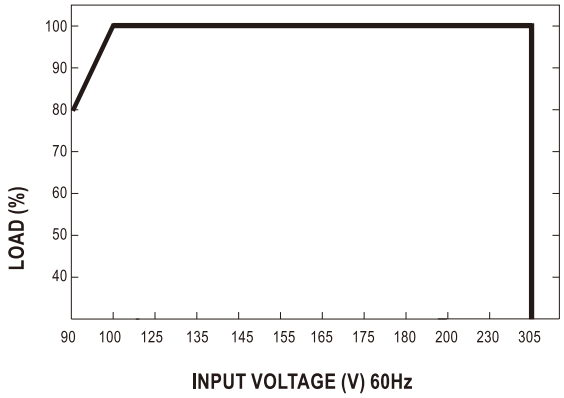
Output Load vs Temperature





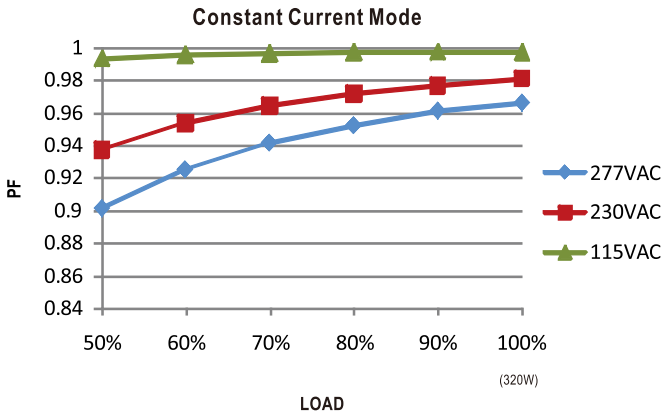
Static Characteristics



※ De-rating is needed under low input voltage.

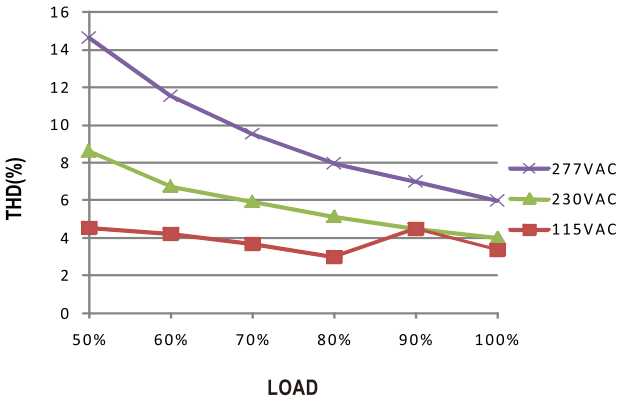
Total Harmonic Distortion

※Tcase at 80℃



Power Factor Characteristeics

※ 48V Model, Tcase at 80℃



Efficiency vs Load

HLG-320H series possess superior working efficiency that up to 95% can be reached in field applications.

※ 48V Model, Tcase at 80℃