

NeoPower Mean Well 185w HLG-185H 240v-24v Transformer



Introducing NeoPower

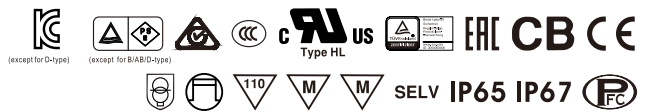
Created by Mean Well is the NeoPower Mean Well 185w HLG-185H 240v-24v Transformer. It 'steps down' the 240V AC into a 24V DC, meaning it is only compatible with our 24V tape selections.

Product Features

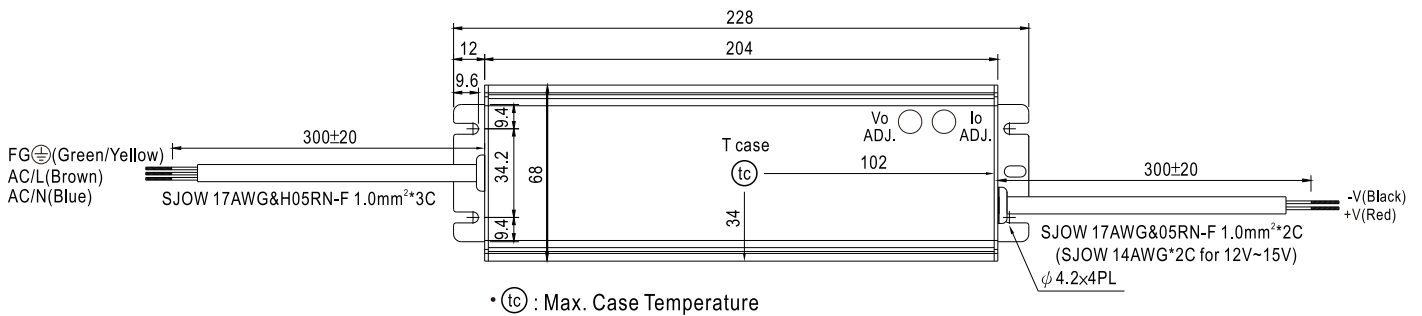
- Constant Voltage + Constant Current mode output
- Metal housing with class I design
- IP67 / IP65 rating for indoor or outdoor installations
- Function options: output adjustable via potentiometer; 3 in 1 dimming
- Typical lifetime > 62000 hours
- 7 years warranty

Applications

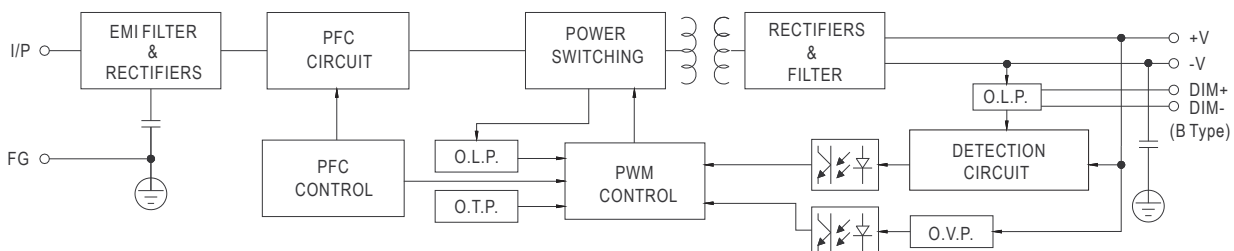
- LED street lighting
- LED high-bay lighting
- Parking space lighting
- LED fishing lamp
- LED greenhouse lighting
- Type "HL" for use in Class I , Division 2 hazardous (Classified) location.



Technical Dimensions



Block Diagram



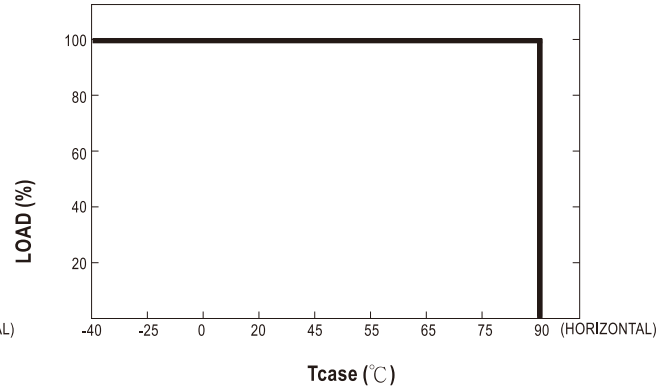
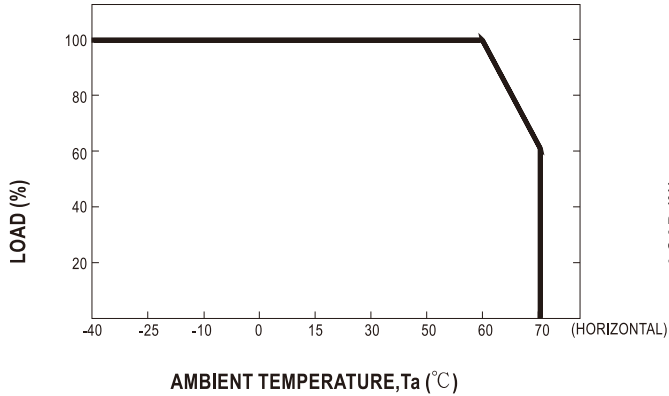
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Technical Specifications

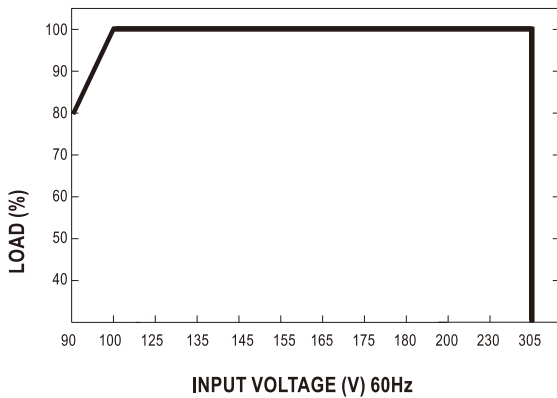
OUTPUT	DC VOLTAGE	24V			
	CONSTANT CURRENT REGION <small>Note.4</small>	12 ~ 24V			
	RATED CURRENT	7.8A			
	RATED POWER	187.2W			
	RIPPLE & NOISE (max.) <small>Note.2</small>	150mVp-p			
	VOLTAGE ADJ. RANGE	Adjustable for A/AB-Type only (via built-in potentiometer) 22 ~ 27V			
	CURRENT ADJ. RANGE	Adjustable for A/AB-Type only (via built-in potentiometer) 3.9 ~ 7.8A			
	VOLTAGE TOLERANCE <small>Note.3</small>	± 1.0%			
	LINE REGULATION	± 0.5%			
	LOAD REGULATION	± 0.5%			
	SETUP, RISE TIME <small>Note.6</small>	1000ms,200ms/115VAC 500ms,200ms/230VAC			
HOLD UP TIME (Typ.)	16ms / 115VAC, 230VAC				
INPUT	VOLTAGE RANGE <small>Note.5</small>	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 ≥ 0.92/277VAC @ 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.)	93.5%			
	AC CURRENT (Typ.)	12V	1.8A / 115VAC	0.8A / 230VAC	0.7A / 277VAC
		15V ~ 54V	2.1A / 115VAC	0.9A / 230VAC	0.8A / 277VAC
	INRUSH CURRENT (Typ.)	COLD START 65A (width=445µs measured at 50% I _{peak}) at 230VAC; Per NEMA 410			
MAX. No. of PSUs on 16A CIRCUIT BREAKER	4 units (circuit breaker of type B) / 7 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	28 ~ 34V 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.	T _{case} = -40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)			
	MAX. CASE TEMP.	T _{case} = +90°C			
	WORKING HUMIDITY	20 ~ 95% RH non-condensing			
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH			
	TEMP. COEFFICIENT	± 0.03%/°C (0 ~ 60°C)			
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. 250.0-08; 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), 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°C / 70% RH			
	EMC EMISSION	Compliance to EN55015, EN55032 (CISPR32) 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	757.2K hrs min. Telcordia SR-332 (Bellcore); 192.2K hrs min. MIL-HDBK-217F (25°C)			
	DIMENSION	228*68*38.8mm (L*W*H)			
NOTES	<p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µf & 47µf parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>4. Please refer to "DRIVING METHODS OF LED MODULE".</p> <p>5. Derating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.</p> <p>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.</p> <p>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.</p> <p>8. To fulfill requirements of the latest EIP regulation for lighting fixtures, this LED driver can only be used behind a switch without permanently connected to the mains.</p> <p>9. This series meets the typical life expectancy of >=62,000 hours of operation when T_{case}, particularly Ⓢ (or T_{MP}, per DLC), is about 75°C or less.</p> <p>10. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com</p> <p>11. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).</p> <p>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</p>				

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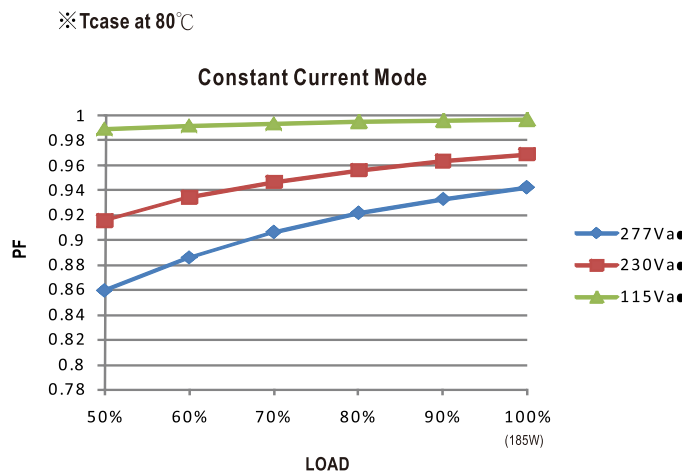
Output Load vs Temperature



Static Characteristics

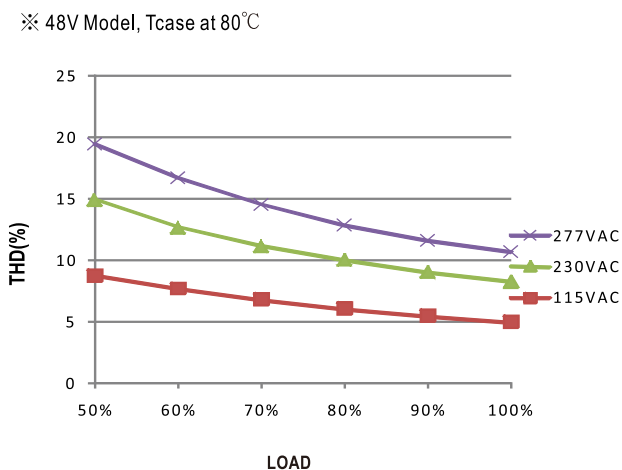


Total Harmonic Distortion



※ De-rating is needed under low input voltage.

Power Factor Characteristic



Efficiency vs Load

HLG-185H series possess superior working efficiency that up to 94% can be reached in field applications.

※ 48V Model, Tcase at 80°C

