

# LSLED600W Power Supply



With universal input voltage ranging from 120-277V, this 600W 50/60 Hz power supply has a 12V, 24V, 30V and 48 V DC output. Designed for wall mount installations, this power supply has an IP67 protection rating and should be installed in a dry environment.

### Features Include:

- Constant voltage
- Metal housing with class design
- Built-in active PFC function
- Class 2 power unit
- IP67 protection rating
- Typical lifetime > 62,000 hours
- 7-year warranty



### Output

DC Voltage	12V	24V	30V	48V
Rated Current	40A	25A	20A	12.5A
Ripple & Noise	150mVp-p	150mVp-p	200mVp-p	250mVp-p
Voltage Tolerance <sup>3</sup>	±3.0%	±1.0%	±1.0%	±1.0%
Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%
Load Regulation	±2.0%	±0.5%	±0.5%	±0.5%
Setup, Rise Time <sup>6</sup>	500ms, 80ms / 115VAC, 230VAC			
Hold Up Time (Typical)	15ms / 115VAC, 230VAC			

### Input

DC Voltage	12V	24V	30V	48V
Voltage Range <sup>5</sup>	90 ~ 305 V AC 127 ~ 431VDC			
Frequency Range	47 ~ 63Hz			
Power Factor (Typ.)	PF≥0.98/115 V AC, PF≥0.95/230 V AC, PF≥0.93/277 V AC @ full load			
Total Harmonic Distortion	THD< 20% (@ load≥50% / 115 V AC,230 V AC; @ load≥75% / 277 V AC)			
Efficiency (Typ.)	230VAC	92%	95%	95%
	277VAC	92.5%	95%	95%
AC Current (Typ.)	7A / 115VAC 3.3A / 230VAC 2.9A / 277VAC			
Inrush Current (Typ.)	COLD START 70A(twidth=1000μ s measured at 50% Ipeak) at 230VAC; Per NEMA 410			
Maximum Number of PSUs on 16A Circuit Breaker	1 unit (circuit breaker of type B) 2 units (circuit breaker of type C) at 230VAC			
Leakage Current	<0.75mA / 277 V AC			

## Protection

DC Voltage	12V	24V	30V	48V
<b>Over Current</b>	95 ~ 108%			
	Constant current limiting, recovers automatically after fault condition is removed			
<b>Short Circuit</b>	Hiccup mode, recovers automatically after fault condition is removed			
<b>Over Voltage</b>	13 ~ 16V	26 ~ 30V	32.5 ~ 36.5V	52.5 ~ 56.5V
	Shut down and latch off o/p voltage, re-power on to recover			
<b>Over Temperature</b>	Shut down and latch off o/p voltage, re-power on to recover			

## Environment

<b>Working Temperature</b>	Tcase = -40~ +90°C (Refer to Output Load vs. Temperature on page 5)
<b>Max Case Temperature</b>	Tcase = +90°C
<b>Working Humidity</b>	20~95% RH non-condensing
<b>Storage Temperature Humidity</b>	-40 ~ +85°C, 10 ~ 95% RH non-condensing
<b>Temperature Co-efficient</b>	±0.03%/°C (0 ~ 55°C)
<b>Vibration</b>	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes

## Safety & EMC

<b>Safety Standards<sup>8</sup></b>	UL60950-1, UL8750(type"HL"), CSA C22.2 No. 250.13-12, ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 independent, BS EN/EN62384, IP65 or IP67, J61347-1, J61347-2-13, GB19510.1,GB19510.14, EAC TP TC 004, AS/NZS 60950.1(by CB)(AB type except), KC61347-1, KC61347-2-13(except for AB type) approved
<b>Withstand Voltage</b>	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC
<b>Isolation Resistance</b>	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH
<b>EMC Emission<sup>8</sup></b>	Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (@ load≥50%) ; BS EN/EN61000-3-3, EAC TP TC 020; GB/T 17743,GB17625.1, KS C 9815, KS C 9547
<b>EMC Immunity</b>	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61547, BS EN/EN55024, light industry level (surge immunity Line-Earth 4KV, Line-Line 2KV), EAC TP TC 020; KS C 9815, KS C 9547

## Others

<b>MTBF</b>	913.4K hrs min. Telcordia SR-332 (Bellcore) ; 76.9K hrs min. MIL-HDBK-217F (25°C)
<b>Dimension</b>	280mm x 144mm x 48.5mm (LxWxH)
<b>Packing</b>	3.9Kg; 4pcs/16.6Kg/0.9CUFT

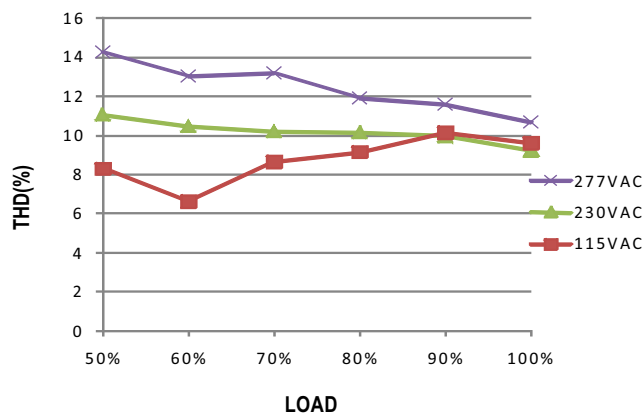
## Notes

1. All parameters NOT specifically mentioned are measured at 230 V AC input, rated current and 25°C of ambient temperature.
2. Ripple & noise are measured at 20 MHz 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" section 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°C or less.
10. Please refer to the warranty statement on MEANWELL's website at: <http://www.meanwell.com>
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 (6500 ft).
12. For any application note and IP water proof function installation caution, please refer to user manual before using: [https://www.meanwell.com/Upload/PDF/LED\\_EN.pdf](https://www.meanwell.com/Upload/PDF/LED_EN.pdf)



## Total Harmonic Distortion (THD)

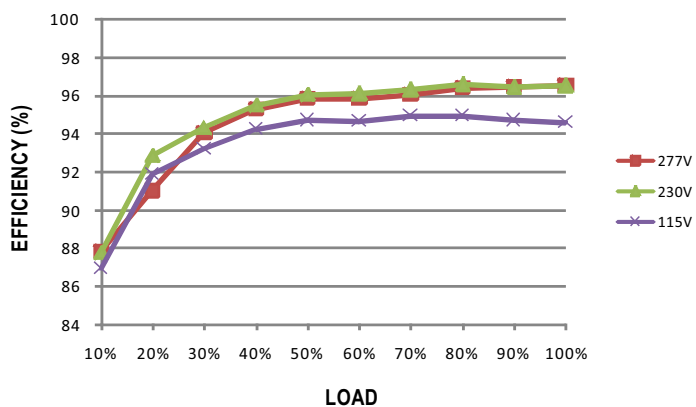
※ 48V Model, Tcase at 80°C



## Efficiency vs. Load

HLG-600H series possess superior working efficiency that up to 96% can be reached in field applications.

※ 48V Model, Tcase at 80°C



## Lifetime

