With universal input voltage ranging from 120-277V, this 120W 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 IP65 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 / IP65 protection rating for indoor or outdoor installations .
- Functions options output adjustable via potentiometer, 3-in-1 dimming, timer dimming •
- Typical lifetime > 62,000 hours
- 7-year warranty

 \mathbb{W} selv IP65 IP67 \mathbb{R} c \mathbb{W} us \mathbb{A} \mathbb{A} \mathbb{O} \mathbb{O} \mathbb{O} \mathbb{O} 110 F <u>M</u>

Output

TAIWAN

DC Voltage	12V	24V	30V	48V	
Rated Current	10A	5A	4A	2.5A	
Ripple & Noise	150mVp-p	150mVp-p	200mVp-p	200mVp-p	
Voltage Adj. Range	Adjustable for A-Type only (via built-in potentiometer)				
Voltage Tolerance ³	±2.5%	±1.0%	±1.0%	±1.0%	
Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%	
Load Regulation	±2.0%	±1.5%	±0.5%	±0.5%	
Setup, Rise Time ⁶	1200ms, 50ms	1200ms, 50ms/115 V AC 500ms,50ms/230 V AC			
Hold Up Time (Typical)	12ms / 115 V AC, 230 V AC				

Input

DC Voltage	12V	24V	30V	48V
Voltage Range⁵	90 ~ 305 V AC	126 ~ 431 V DC		
Frequency Range	47 ~ 63 Hz			
Power Factor (Typ.)	PF≥0.98/115 V AC, PF≥0.95/230 V AC, PF≥0.92/277 V AC @ full load			
Total Harmonic Distortion	THD< 20% (@ load≥50% / 115 V AC,230 V AC; @ load≥75% / 277 V AC)			
Efficiency (Typ.)	92%	93%	93%	93.5%
AC Current (Typ.)	1.4A / 115 V AC 0.6A / 230 V AC 0.55A / 277 V AC			
Inrush Current (Typ.)	COLD START 60A(twidth=375µ s measured at 50% Ipeak) at 230 V AC; Per NEMA 410			
Maximum Number of PSUs on 16A Circuit Breaker	r 5 units (circuit breaker of type B) / 9 units (circuit breaker type C) @230 V AC			
Leakage Current	<0.75mA / 277 V	/ AC		

Products and specifications are subject to change without notice.









Protection

12V	24V	30V	48V	
95 ~ 108%				
Constant current limiting, recovers automatically after fault condition is removed				
Hiccup mode, recovers automatically after fault condition is removed				
ver Voltage 14 ~ 17V 28 ~ 34V 34 ~ 38V			54 ~ 63V	
Shut down o/p voltage with auto recovery re-power on to recovery				
Shut down o/p voltage, recovers automatically after termperature goes down				
	95 ~ 108% Constant curre Hiccup mode, 14 ~ 17V Shut down o/p	95 ~ 108% Constant current limiting, recovers au Hiccup mode, recovers automatically 14 ~ 17V 28 ~ 34V Shut down o/p voltage with auto reco	95 ~ 108% Constant current limiting, recovers automatically after fault condition is Hiccup mode, recovers automatically after fault condition is 14 ~ 17V 28 ~ 34V 34 ~ 38V Shut down o/p voltage with auto recovery re-power on to re	

Environment

DC Voltage	12V	24V	30V	48V	
Working Temperature	Tcase = -40~ +80°C (Refer to Output Load vs. Temperature on page 5)				
Max Case Temperature	Tcase = +80°C				
Working Humidity	20~95% RH non-condensing				
Storage Temperature Humidity	-40 ~ +80°C, 10 ~ 95% RH				
Temperature Co-efficient	±0.03%/°C (0 ~ 60°C)				
Vibration	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes				

Safety & EMC

DC Voltage	12V	24V	30V	48V	
Safety Standards 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,EAC TP TC 004,KC61347-1,KC61347-2-13(except for AB-type), IP65 or IP67 approved ; optional models for J61347-1,J61347-2-13 ; design refer to UL60950-1, TUV EN60950-1				
Withstand Voltage	I/P-O/P:3.75K V AC I/P-FG:2K V AC O/P-FG:1.5K V AC				
Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500 V DC / 25°C/ 70% RH				
EMC Emission ⁸	Compliance to EN55015, EN61000-3-2 Class C (@ load≥60%) ; EN61000-3-3,GB17743 and GB17625.1, EAC TP TC 020				
EMC Immunity		to EN61000-4-2,3,4,5,6 nity Line-Earth 4KV, Lin		024, light industry level TC 020	

DC Voltage	12V	24V	30V	48V		
MTBF	559.5K hrs mi	559.5K hrs min. Telcordia SR-332 (Bellcore) ; 167.1K hrs min. MIL-HDBK-217F (25°C)				
Dimension	220mm x 68n	220mm x 68mm x 38.8mm (LxWxH)				
Packing	1.12 kg; 12pcs/	1.12 kg; 12pcs/14.4 kg/0.8CUFT				

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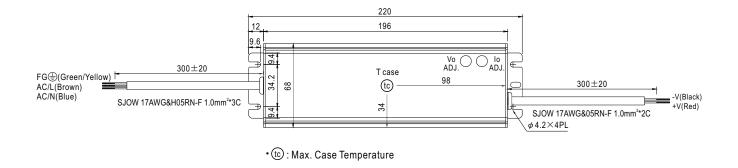
Notes

- All parameters NOT specifically mentioned are measured at 230 V AC input, rated current and 25°C of ambient temperature. 1.
- Ripple & noise are measured at 20 MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf 2. parallel capacitor.
- 3 Tolerance: includes set up tolerance, line regulation and load regulation.
- Please refer to "DRIVING METHODS OF LED MODULE" 4
- 5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" section for details.
- 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. 6
- 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.
- To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED driver can only be used behind a switch without 8 permanently connected to the mains.
- This series meets the typical life expectancy of >62,000 hours of operation when Tcase, particularly tc point (or TMP, per DLC), 9. 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





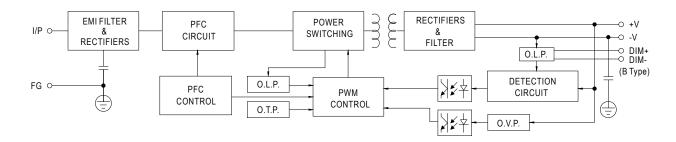
Technical Drawings





Block Diagram

Fosc: 100KHz

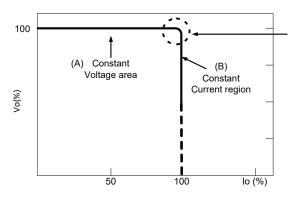


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Driving Methods of LED Module

M This series is able to work in either Constant Current mode (a direct drive way) or Constant Voltage mode (usually through additional DC/DC driver) to drive the LEDs.

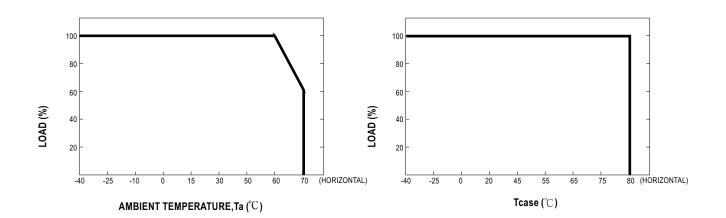


In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact Lumascape.

Typical output current normalized by rated current (%)

Output Load vs. Temperature

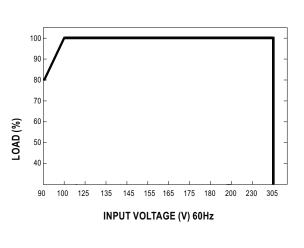


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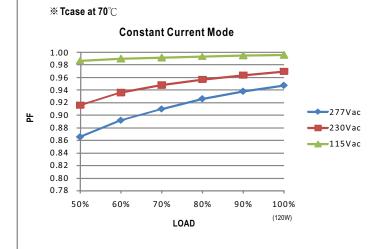


Static Characteristics



* De-rating is needed under low input voltage.

Power Factor (PF) Characteristics



Total Harmonic Distortion (THD)

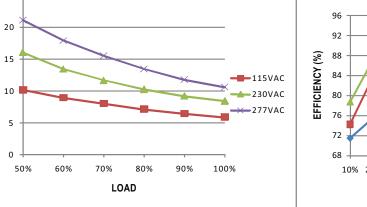
※ 48V Model, Tcase at 70°C

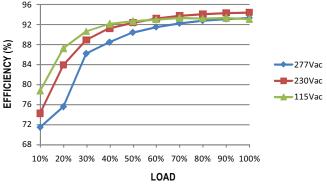
25

THD(%)

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°C

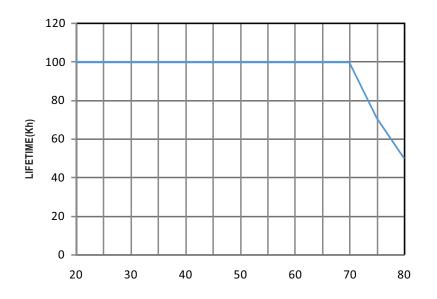




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Lifetime



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