



With universal input voltage ranging from 120-277V, this 80W 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

























Output

- Catpat				
DC Voltage	12V	24V	30V	48V
Rated Current	5A	3.4A	2.7A	1.7A
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%	±0.5%	±0.5%	±0.5%
Setup, Rise Time ⁶	1200ms, 200ms/115 V AC 500ms,80ms/230 V AC			
Hold Up Time (Typical)	16ms at full load 230 V AC / 115 V AC			

Input

DC Voltage	12V	24V	30V	48V
Voltage Range⁵	90 ~ 305 V AC	127 ~ 431 V DC		
Frequency Range	47 ~ 63 Hz			
Power Factor (Typ.)	PF≥0.98/115 V A	C, PF≥0.95/230 V AC	C, PF≥0.92/277 V AC	@ full load
Total Harmonic Distortion	THD< 20% (@ lo	ad≥60% / 115 V AC,23	30 V AC; @ load≥75	% / 277 V AC)
Efficiency (Typ.)	88%	90.5%	91%	91%
AC Current (Typ.)	0.85A / 115 V AC	0.425A / 230 V AC	0.4A / 277 V AC	
Inrush Current (Typ.)	COLD START 50 Per NEMA 410)A(twidth=485µ s me	asured at 50% Ipeal	k) at 230 V AC;
Maximum Number of PSUs on 16A Circuit Breaker	3 units (circuit b	reaker of type B) / 6 ι	ınits (circuit breaker	type C) @230 V AC
Leakage Current	<0.75mA / 277 V	' AC		



Protection

DC Voltage	12V	24V	30V	48V	
Over Current	95 ~ 108%				
	Constant current limiting, recovers automatically after fault condition is removed				
Short Circuit	Hiccup mode, recovers automatically after fault condition is removed				
Over Voltage	age 14 ~ 17V 28 ~ 35V 35 ~ 43V 54				
	Shut down o/p voltage with re-power on to recovery				
Over Temperature	Shut down o/p voltage with re-power on to recovery				

Environment

DC Voltage	12V	24V	30V	48V	
Working Temperature	Tcase = -40 [~]	+80°C (Refer to Outpu	ıt Load vs. Temperatur	e 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, 5	G 12min./1cycle, perio	d for 72min. each alor	ng X, Y, Z axes	

Safety & EMC

DC Voltage	12V	24V	30V	48V	
Safety Standards ⁸	61347-2-13 ir 2-13(except f	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,GB1774 and GB17625.1, EAC TP TC 020				
EMC Immunity		to EN61000-4-2,3,4,5,6 nity Line-Earth 4KV, Lin		5024, light industry level PTC 020	

Others

DC Voltage	12V	24V	30V	48V	
MTBF	1069K hrs min. Telcordia SR-332 (Bellcore) ; 357.8K hrs min. MIL-HDBK-217F (25°C)				
Dimension	195.6mm x 61.5mm x 38.8mm (LxWxH)				
Packing	0.84 kg; 16pcs/14.4 kg/0.54CUFT				

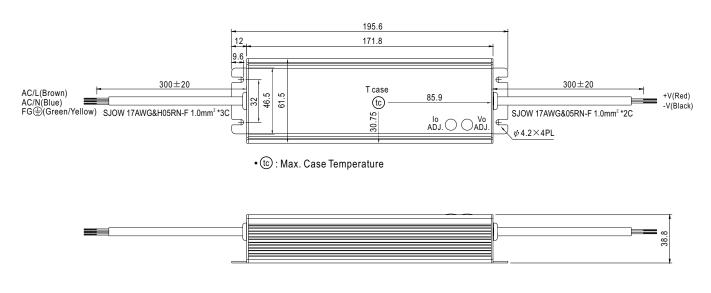


Notes

- 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.
- 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

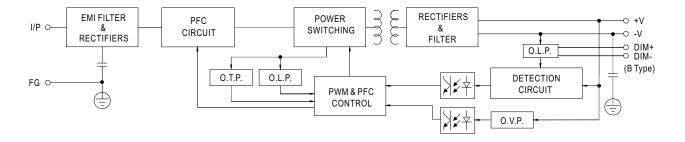


Technical Drawings



Block Diagram

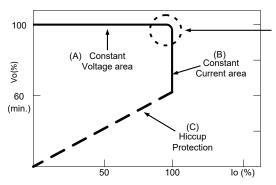
Fosc: 100KHz





Driving Methods of LED Module

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.

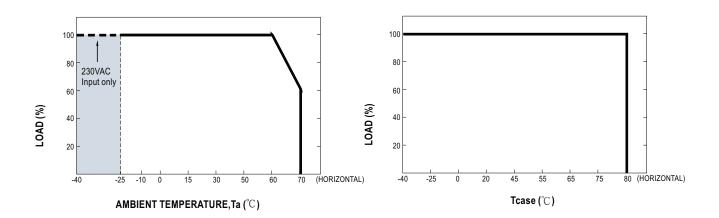


In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact Lumascape

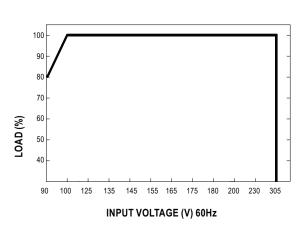
Typical output current normalized by rated current (%)

Output Load vs. Temperature



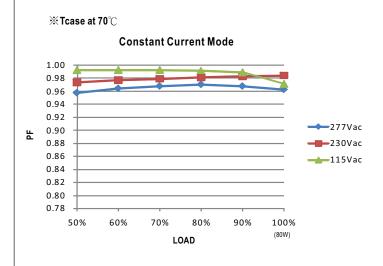


Static Characteristics

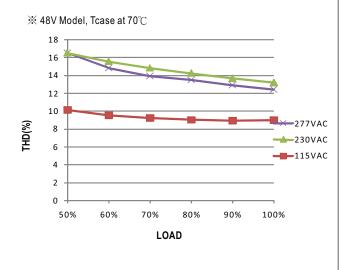


※ De-rating is needed under low input voltage.

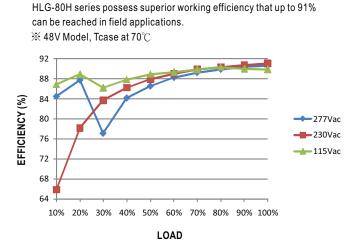
Power Factor (PF) Characteristics



Total Harmonic Distortion (THD)



Efficiency vs. Load





Lifetime

