

Наличие и актуальные цены на

HLN-80H-15

https://www.mean-well.ru/store/HLN-80H-15/



80W Single Output Switching Power Supply

HLN-80H series

User's Manual

同论结

- Features :
- Universal AC input / Full range (up to 305VAC)
- Built-in active PFC function
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Cooling by free air convection
- OCP point adjustable through output cable or internal potentiometer
- Fully isolated plastic case with IP64 level
- Class 2 power unit
 - Class 2 power unit
- Three in one dimming function (1~10Vdc or PWM signal or resistance)
- Suitable for LED lighting, Industrial Lighting and moving sign applications
 Compliance to worldwide safety regulations for lighting
- Suitable for dry / damp locations or outdoor application

GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx • 3 years warranty

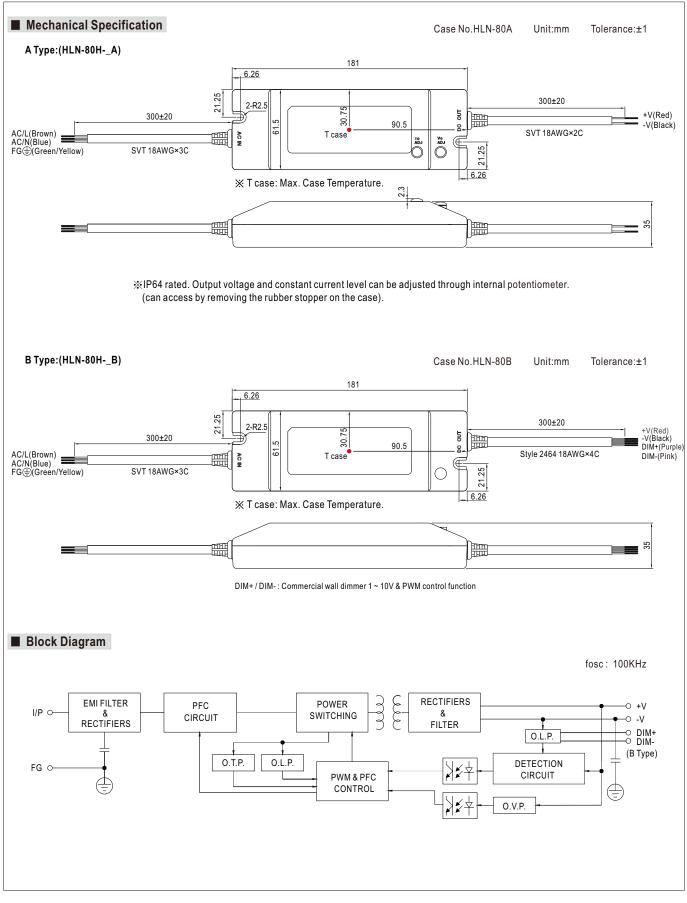


HLN-80H-12 A : IP64 rated. Output voltage and constant current level can be adjusted through internal potentiometer. B : IP64 rated. Constant current level adjustable through output cable with 1~10Vdc or 10V PWM signal or resistance.

| | ATION | | | | | | | 1 | | | | | | |
|-------------|--|---|------------------|----------------|-----------------|------------------|-----------------|-----------------|-------------------|--------------|--|--|--|--|
| MODEL | | | HLN-80H-15 | | | | HLN-80H-36 | HLN-80H-42 | HLN-80H-48 | HLN-80H-54[| | | | |
| | DC VOLTAGE | 12V | 15V | 20V | 24V | 30V | 36V | 42V | 48V | 54V | | | | |
| OUTPUT | CONSTANT CURRENT REGION Note.4 | 7.2~12V | 9~15V | 12 ~ 20V | 14.4 ~ 24V | 18 ~ 30V | 21.6 ~ 36V | 25.2 ~ 42V | 28.8~48V | 32.4 ~ 54V | | | | |
| | RATED CURRENT | 5A | 5A | 4A | 3.4A | 2.7A | 2.3A | 1.95A | 1.7A | 1.5A | | | | |
| | RATED POWER | 60W | 75W | 80W | 81.6W | 81W | 82.8W | 81.9W | 81.6W | 81W | | | | |
| | RIPPLE & NOISE (max.) Note.2 | 150mVp-p | 150mVp-p | 150mVp-p | 150mVp-p | 200mVp-p | 200mVp-p | 200mVp-p | 200mVp-p | 200mVp-p | | | | |
| | VOLTAGE ADJ. RANGE Note.6 | 10.8~13.5V | 13.5 ~ 17V | 17 ~ 22V | 22 ~ 27V | 27 ~ 33V | 33 ~ 40V | 38~46V | 43 ~ 53V | 49~58V | | | | |
| | CURRENT ADJ. RANGE | Can be adjust | ed by internal p | otentiometer A | A type only | | | | | | | | | |
| | OURICENT ADD. NAMOL | 3 ~ 5A | 3 ~ 5A | 2.4 ~ 4A | 2.04 ~ 3.4A | 1.62~2.7A | 1.38 ~ 2.3A | 1.17 ~ 1.95A | 1.02 ~ 1.7A | 0.9~1.5A | | | | |
| | VOLTAGE TOLERANCE Note.3 | ±2.5% | ±2.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | | | | |
| | LINE REGULATION | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | | | | |
| | LOAD REGULATION | ±2.0% | ±1.5% | ±1.0% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | | | | |
| | SETUP, RISE TIME Note.8 | 1200ms,80ms | /115VAC 50 | 0ms,80ms/230 | VAC at full loa | id ; B type 1200 | ms,200ms/11 | 5VAC 500ms | s,200ms/230VA | AC at 95% lo | | | | |
| | HOLD UP TIME (Typ.) | 16ms at full lo | ad 230VAC/ | 115VAC | | | | | | | | | | |
| | VOLTAGE RANGE Note.5 | 90 ~ 305VAC | 127 ~ 431 | VDC | | | | | | | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | | | | | | | | | |
| | POWER FACTOR (Typ.) | PF>0.96/115V | AC, PF>0.96/2 | 230VAC, PF>0 | .94/277VAC at | full load (Pleas | e refer to "Pow | ver Factor Chai | racteristic" curv | re) | | | | |
| | TOTAL HARMONIC DISTORTION | THD< 20% when output loading≧60% at 115VAC/230VAC input and output loading≧75% at 277VAC input | | | | | | | | | | | | |
| INPUT | EFFICIENCY (Typ.) | 88% | | | | | | | | | | | | |
| | AC CURRENT (Typ.) | 0.85A / 115VAC 0.425A / 230VAC 0.4A / 277VAC | | | | | | | | | | | | |
| | INRUSH CURRENT(Typ.) | COLD START 70A(twidth=485µs measured at 50% Ipeak) at 230VAC | | | | | | | | | | | | |
| | MAX. No. of PSUs on 16A CIRCUIT BREAKER | 3 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC | | | | | | | | | | | | |
| | LEAKAGE CURRENT | <0.75mA/277VAC | | | | | | | | | | | | |
| | OVER CURRENT Note.4 | 95 ~ 108% Protection type : Constant current limiting, recovers automatically after fault condition is removed | | | | | | | | | | | | |
| | SHORT CIRCUIT | | recovers auto | | | | | | | | | | | |
| PROTECTION | | 14 ~ 17V | 18~24V | 23 ~ 30V | 28 ~ 35V | 35~43V | 41~49V | 48~58V | 54 ~ 63V | 59~68V | | | | |
| | OVER VOLTAGE | Protection type : Shut down o/p voltage, re-power on to recover | | | | | | | | | | | | |
| | OVER TEMPERATURE | Shut down o/p voltage, re-power on to recover | | | | | | | | | | | | |
| | WORKING TEMP. | -40 ~ +50°C (Refer to "Derating Curve") | | | | | | | | | | | | |
| | WORKING HUMIDITY | 20 ~ 95% RH non-condensing | | | | | | | | | | | | |
| INVIRONMENT | STORAGE TEMP., HUMIDITY | -40 ~ +80°C, 10 ~ 95% RH | | | | | | | | | | | | |
| | TEMP. COEFFICIENT | | | | | | | | | | | | | |
| | VIBRATION | ±0.03%/°C (0 ~ 40°C) 10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes | | | | | | | | | | | | |
| | VIDRATION | | | | | • | | andent (DC4 | | | | | | |
| | SAFETY STANDARDS Note.7 | UL8750, CSA C22.2 No. 250.0-08, BS EN/EN 61347-1, BS EN/EN 61347-2-13 independent ; IP64, EAC TP TC 004 approved ; Design refer to UL60950-1 | | | | | | | | | | | | |
| SAFETY & | | | | 0 | | 0 | | | | | | | | |
| | WITHSTAND VOLTAGE | I/P-O/P:3.75KVAC I/P-FG:2KVAC 0/P-FG:0.5KVAC I/P-O/P, I/P-FG, 0/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH | | | | | | | | | | | | |
| EMC | ISOLATION RESISTANCE | | | | | | | | | 0.0.0 | | | | |
| | EMC EMISSION | Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (≧60% load, 12V model ≧65% load) ; BS EN/EN61000-3-3, EAC TP TC 020 | | | | | | | | | | | | |
| | | Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61547, BS EN/EN55024, light industry level (surge 4KV), criteria B, EAC TP TC 020 | | | | | | | | | | | | |
| | MTBF | 2786.8K hrs min. Telcordia SR-332(Bellcore) ; 316.2K hrs min. MIL-HDBK-217F (25°C) | | | | | | | | | | | | |
| OTHERS | DIMENSION | 181*61.5*35n | , , | - | | | | | | | | | | |
| | PACKING | | • | | Used and OF O | -f | 4 | | | | | | | |
| NOTE | PACKING 0.5Kg; 24pcs/13Kg/0.87CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C 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. Derating may be needed under low input voltages. Please check the static characteristics for more details. 6. A type only. 7. Safety and EMC design refer to EN60598-1, CNS15233, FCC part18. 8. Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. 9. The power supply 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. (as available on https://www.meanwell.com//Upload/PDF/EML statement_en.pdf) 10. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains. 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). 12. For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.c | | | | | | | | | | | | | |



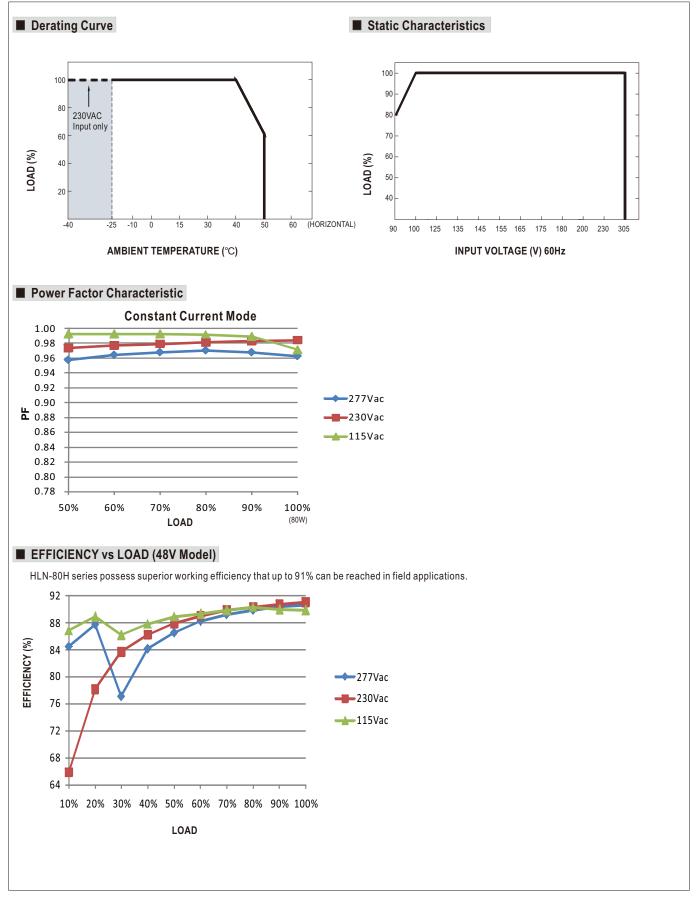
HLN-80H series





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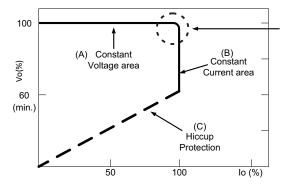
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DRIVING METHODS OF LED MODULE

There are two major kinds of LED drive method "direct drive" and "with LED driver".

A typical LED power supply may either work in "constant voltage mode (CV) or constant current mode (CC)" to drive the LEDs.

Mean Well's LED power supply with CV+ CC characteristic can be operated at both CV mode (with LED driver, at area (A) and CC mode (direct drive, at area (B).

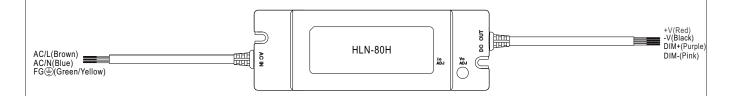


Typical LED power supply I-V curve

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 MEAN WELL.

DIMMING OPERATION(for B-type only)



% Built-in 3 in 1 dimming function, IP64 rated. Output constant current level can be adjusted through output cable by connecting a resistance or 1 ~ 10Vdc or 10V PWM signal between DIM+ and DIM-.

※ Please DO NOT connect "DIM-" to "-V".

% Reference resistance value for output current adjustment (Typical)

| Resistance value | Single driver | 10KΩ | 20KΩ | 30KΩ | 40KΩ | 50KΩ | 60KΩ | 70KΩ | 80KΩ | 90KΩ | 100KΩ | OPEN |
|---------------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|----------|
| | Multiple drivers (N=driver quantity for synchronized dimming operation) | 10KΩ/N | 20KΩ/N | 30KΩ/N | 40KΩ/N | 50KΩ/N | 60KΩ/N | 70KΩ/N | 80KΩ/N | 90KΩ/N | 100KΩ/N | |
| Percentage | e of rated current | 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% | 100% | 95%~108% |

※ 1 ~ 10V dimming function for output current adjustment (Typical)

| Percentage of rated current 10% 20% 30% 40% 50% 60% 70% 80% 90% 100% | mming value 1V 2V | 3V 4\ | 4V 5V | 6V | 7V | 8V | 9V | 10V | OPEN |
|--|-----------------------------------|--------|---------|-----|-----|-----|-----|------|----------|
| | rcentage of rated current 10% 20% | 30% 40 | 40% 50% | 60% | 70% | 80% | 90% | 100% | 95%~108% |

% 10V PWM signal for output current adjustment (Typical): Frequency range:100Hz ~ 3KHz

| Duty value | 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% | 100% | OPEN |
|-----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|----------|
| Percentage of rated current | 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% | 100% | 95%~108% |

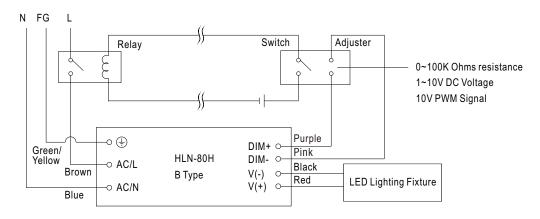


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WUsing the built-in dimming function on B-type model can't turn the lighting fixture totally dark. Please refer to the connection method below to achieve 0% brightness of the lighting fixture connecting to the LED power supply unit.
 WDirect connecting to LEDs is suggested, but is not suitable for using additional drivers.

Dimming connection diagram for turning the lighting fixture ON/OFF :



Using a switch and relay can turn ON/OFF the lighting fixture.

1.Output constant current level can be adjusted through output cable by connecting a resistance or 1~10Vdc or 10V PWM signal between DIM+ and DIM-. 2.The LED lighting fixture can be turned ON/OFF by the switch.