



# 60W LED POWER SUPPLY

## *Multi-Drive Series*



### 60W LED Power Supply

- 12V DC Constant Voltage Technology
- IP68 Dry and Damp Locations
- 90-305V AC Universal Inputs
- Ripped Aluminum Housing for Superior Heat Dissipation
- UL/cUL Sign Accessories, UL Class 2 Certified



IP68

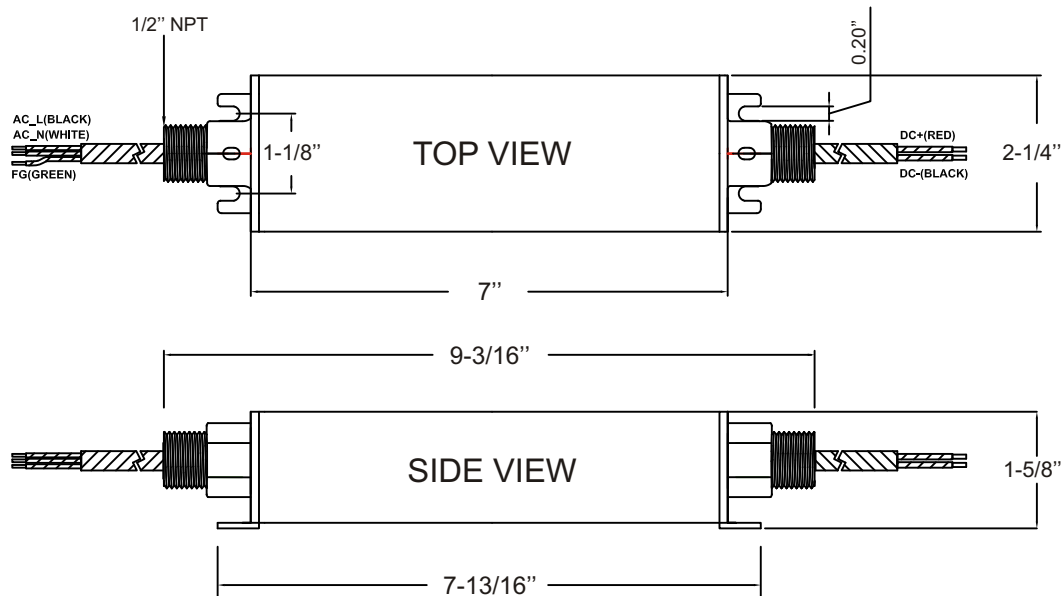
CE

FC





## Dimensions:



## Specifications:

Input Voltage	90-305V AC full range (1.90A / 115V 1.00A / 230V)
Frequency	47Hz to 63Hz
Output Voltage	12V DC
Output Power	60W MAX
Output Current	5A
Efficiency	85%
Overload Protection	Auto Recovery (over voltage, over current short circuit protection)
Leakage Current	<2.5mA/230V AC
Ripple and Noise	170mVp-p
Inrush Current	25°C cold start, 30A at 230V AC

## Environmental:

Operating Temperature	-40°C to +70°C
Storage Temperature	-40°C to +75°C
Humidity	20%-95% (RH-NonCondensing)
Cooling	Air Convection
Vibration Frequency	10 to 500 Hz
MTBF	732Khrs min MIL-HDBK-217F(25°C)
Dimensions	7-13/16" x 2-1/4" x 1-5/8" (L x W x H)
Weight	1.65 lbs
Input Connection	(L) Black (N) White (G) Ground #1015 18AWG
Output Connection	(+) Red (-) Black #1015 18AWG

Recommended load approximately 75% capacity of power supply for extended lifespan. Equip with protective box for outdoor use and the box should have ventilating holes.

# Product Limited Warranty

MaxBrite LED is dedicated to providing defect-free products that will give the buyer years of trouble free operation. These products offer high design standards and are the most thoroughly tested in the industry. All MaxBrite LED products maintain very strict quality assurance standards that are essential to customer requirements.

MaxBrite LED warrants its LED products and Power Supply products to meet the performance criteria outlined in the written data sheets and specifications. These products are guaranteed to be free from defects in materials and workmanship for the warranty period stated below, as long as the MaxBrite LED products and Power Supplies are used together as a system. If any LED product or Power Supply fails to perform, as specified during the warranty period in accordance with the terms and conditions set forth herein, MaxBrite LED will replace, or at its discretion, repair free of charge, the non-performing product on a pro-rata basis.

## Terms and Conditions

### Usage

This limited warranty is based on reasonable indoor or outdoor usage in architectural applications for image identification, when installed and used in accordance with instructions from MaxBrite LED. Normal operating conditions are defined as 24 hour per day, 7 day per week continuous use in typical outdoor heat and humidity environmental conditions. All LED systems, to varying degrees, have some amount of light degradation over the life of the product. MaxBrite LED designs all of its LED systems to minimize this light degradation but considers this a normal part of LED technology. This limited warranty is valid only when the LED products and Power Supplies are used together for their intended use and properly installed and wired in accordance with all instructions, building codes, the latest Underwriter Laboratory Standards of Safety, National Electric Code, Canadian Standards Association, and all other domestic and international safety agencies that are recognized as having applicable safety requirements. Any use outside intended use or conditions or the conditions stated in MaxBrite LED written data sheets and instruction, or stated herein, including the use of third party dimming, flashing or other effect devices, extreme environmental conditions or any other unintended usage will void this warranty. Replacement of MaxBrite LED products or Power Supplies with any other manufacturer's components will further void this warranty. After the first 36 months, the warranty is held on a pro-rata basis. The pro-rata formula is as follows:  $\frac{P * T}{W}$

Where P = Current price, T = Remaining term in months, W = The original warranty period in months.

#### EXAMPLE:

An approved warranty claim is made within 36 months of purchase, with an original purchase price of \$100, and a 5 year warranty. MaxBrite is responsible for 100% of the replacement cost since it is within 36 months of purchase.

If the same warranty claim is made within 48 months on the warranty, customer is responsible for  $\frac{100 * 48}{60} = \$80$  for the replacement.

The "date of purchase" refers to the date on your sales invoice. If you cannot find your sales invoice, the date will be calculated based on the date of manufacture which is determined by your product's serial number.

### Warranty Claim Assistance

Should a MaxBrite LED product fail under this warranty please contact MaxBrite LED for a Return Material Authorization number (RMA). An RMA number may be obtained by calling customer service at (408) 437-1600. Information and troubleshooting assistance is also available at this number. Once an RMA number is obtained, the product should be returned directly to MaxBrite LED or the location designated at the time the RMA was issued. Product must be returned within 15 days of RMA issuance for the RMA to remain valid. Please mark all shipping boxes and packing slips with the RMA number. MaxBrite LED, at its sole discretion, may elect to provide replacement product prior to receipt of defective material. If such product is provided, user agrees to return to MaxBrite LED the defective product within 30 days of receipt of replacement. The Customer/Purchaser is responsible for all return shipping costs. Shipping costs are non-refundable. All returned merchandise must be sent back prepaid; we will not accept CODs. Please insure the package(s) for the full amount of the merchandise you are sending back to us. MaxBrite LED is not responsible for missing packages or missing items. Defective product is to be returned to the address listed as the return address on the shipping container. Failure to return defective product within specified time will result in user being charged for replacement product and will void all further warranty claims. Should circumstances arise that preclude the remedying of warranted defects by repair or replacement, MaxBrite LED shall, at its discretion and upon receipt and verification of defective product, refund to the buyer the purchase price or portion of purchase price theretofore paid to MaxBrite LED.

### Limitation of Liability

High quality lighting products is the commitment of MaxBrite LED. By returning defective products it will help us monitor and further improve our product quality. Repair or replacement of product is the sole remedy available. UNDER NO CIRCUMSTANCE SHALL MAXBRITE LED BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL LOSS OR DAMAGE WHATSOEVER ARISING OUT OF, OR IN ANY WAY RELATED TO ANY DEFECT IN OR NON PERFORMANCE OF THE PRODUCTS. NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS MADE OR IMPLIED. Furthermore, MaxBrite LED shall not be responsible for any other costs, including installation or field support labor or loss of profits, income or revenue. Additionally, any drawing, layout, quotation or other communication regarding suggested product type, amount or usage is for reference only and should be treated as an estimate. MaxBrite LED shall not be responsible for minimum illumination levels or other performance criteria. MaxBrite LED reserves the right to test and examine all products returned under this warranty to evaluate proper usage, determine the cause of failure, and make a determination, in its sole judgment whether the products are defective and covered by this warranty.



# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20190506-E313209  
**Report Reference** E313209-20190506  
**Issue Date** 2019-MAY-06

**Issued to:** MAXBRITE LED LIGHTING TECHNOLOGY L L C  
1740-B JUNCTION AVE.  
SAN JOSE, CA 95112 USA

**This certificate confirms that** Sign Accessories - Component  
**representative samples of** See addendum page for models

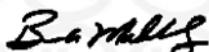
Have been investigated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

**Standard(s) for Safety:** UL 879, Electric Sign Components  
**Additional Information:** See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Recognized Component Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.



Bruce Mahrenholz, Director North American Certification Program  
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>





# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20190506-E313209  
**Report Reference** E313209-20190506  
**Issue Date** 2019-MAY-06

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Sign accessories, Class 2 LED power supply  
MDS60W-12V



Bruce Mahrenholz, Director North American Certification Program  
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20190506-E313209  
**Report Reference** E313209-20190506  
**Issue Date** 2019-MAY-06

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

**Drivers**  
MDS120W-12V, MDS180W-12V



Bruce Mahrenholz, Director North American Certification Program  
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>

