



## BLED-12W Series

Budget Series Switch Mode LED Drivers  
 Constant Current with Isolation  
 Black Magic Thermal Advantage™ Plastic Housing

### Electrical Specifications

Input Voltage Range:	100-277 Vac Nom. (90-305 V Min/Max)
Frequency:	50/60 Hz Nom. (47-63 Hz Min/Max)
Power Factor:	>0.90 @ full load, 120V; >0.80 @ full load, 277V
Inrush Current:	<10.0 A max @ 230 Vac, cold start 25°C
Input Current:	0.18 A max @ 120 Vac; 0.10 A max @ 230 Vac
Maximum Power:	12W
Line Regulation:	± 4%
Load Regulation:	± 5%
THD:	≤ 20% @ full load
Leakage Current:	300 µA Typical
Hold Up Time:	Half Cycle
Start-up Time:	< 1.0 S
Output Protection:	Over-Voltage, Over-Current, Short Circuit (auto-recovery)

### Environmental Specifications

Minimum Starting Temp:	-30°C
Storage Temperature:	-40°C to +85°C
Maximum Case Temp.	90°C
Humidity:	5% to 95%
Cooling:	Convection
Sound Rating:	Class A
Vibration Frequency:	5 to 55 Hz/2g, 30 minutes
MTBF:	580,000 Hours @ full load, 40°C per MIL-217F Notice 2
Impact Resistance:	1g/s
Weight:	3.9 oz. (110 g)



- Smaller footprint than our standard drivers
- Total Power: 12 Watts
- Input Voltage: 100-277 Vac
- Indoor Applications, IP64
- UL Dry or Damp Location Rated
- 2 year Warranty

Constant Current - Product Specifications				
Model Number	Output Current (mA ±5%)	Output Voltage Range (Vdc)	Max. Output Power (W)	Typical Efficiency
BLED12W-150-C0080	80	90-150	12	89%
BLED12W-100-C0120	120	60-100	12	89%
BLED12W-048-C0250	250	28-48	12	88%
BLED12W-043-C0280	280	26-43	12	87%
BLED12W-036-C0350	350	21-36	12.6	86%
BLED12W-024-C0500	500	15-24	12	85%
BLED12W-018-C0660	660	11-18	12	84%
BLED12W-016-C0800	800	10-16	12.8	83%
BLED12W-012-C1000	1000	7-12	12	82%

Class 2: US/Canada US Only

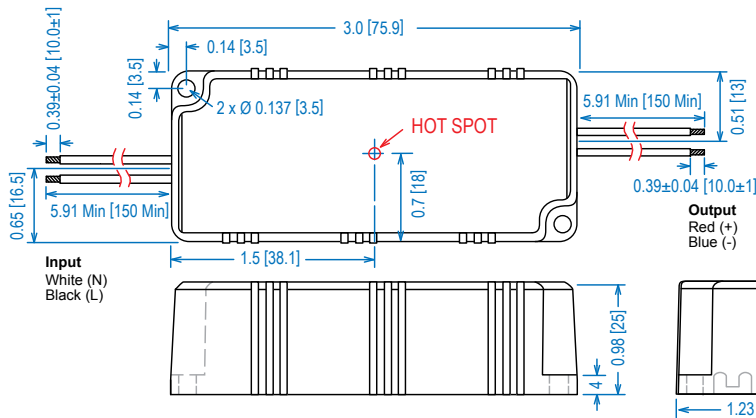


**Note:**  
 LED drivers are designed and intended to operate LED loads only. Non-LED loading may be outside the specified design limits of our LED drivers, and therefore cannot be covered by any warranty. If you desire to use our LED drivers to operate non-LED loads please contact us to discuss compatibility.

Specifications subject to change without notice.

Rev 8-12-15

**Dimensions - mm**



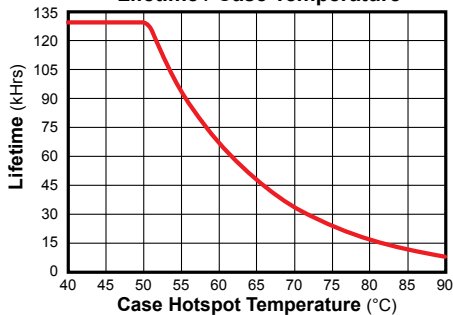
**WIRE SPECS:**

**Input Leads:** 18 AWG, rated 600 V, 105C, min.  
**Output Leads:** 18 AWG, rated 300 V, 105C, min.  
 All wires are stranded with solder dipped ends.

**Input**  
 White (N)  
 Black (L)

**Output**  
 Red (+)  
 Blue (-)

**Lifetime / Case Temperature**



**Note:**

Life calculations are based on reliability with confidence using a 90% confidence level and <5% failure rate. At a confidence level of 90% it is expected that <5% of the parts will fail at the rated life provided. (Failure is defined as a driver drifting outside specification, rather than fail to operate)

Safety and EMC Compliance	
UL/CUL	UL8750, CSA-C22.2
C E	EN61347
FCC, 47CFR Part 15	Class B
EN61000-3-2	
EN61000-3-3	Class C

**UL Conditions of Acceptability**

See website for additional information

**Note:**

Disconnect power to LED driver for at least 30 seconds before connecting or disconnecting Driver output and LED Engine. This prevents potential arcing transients that can damage the Engine and Driver. See Hot Plugging in our Driver Application Guide for more information.