BLED-20W 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 25ºC
Input Current:	0.25 A max @ 120 Vac; 0.13 A max @ 230 Vac
Maximum Power:	20W
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:	-30ºC
Storage Temperature:	-40ºC to +85ºC
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, 40ºC per MIL-217F Notice 2
Impact Resistance:	1g/s
Weight:	5.8 oz (165 g)

- Smaller footprint than our standard drivers
- Total Power: 20 Watts
- Input Voltage: 100-277 Vac
- Indoor Applications, IP64
- UL Dry or Damp Location Rated
- 2 year Warranty

Constant Current - Product Specifications

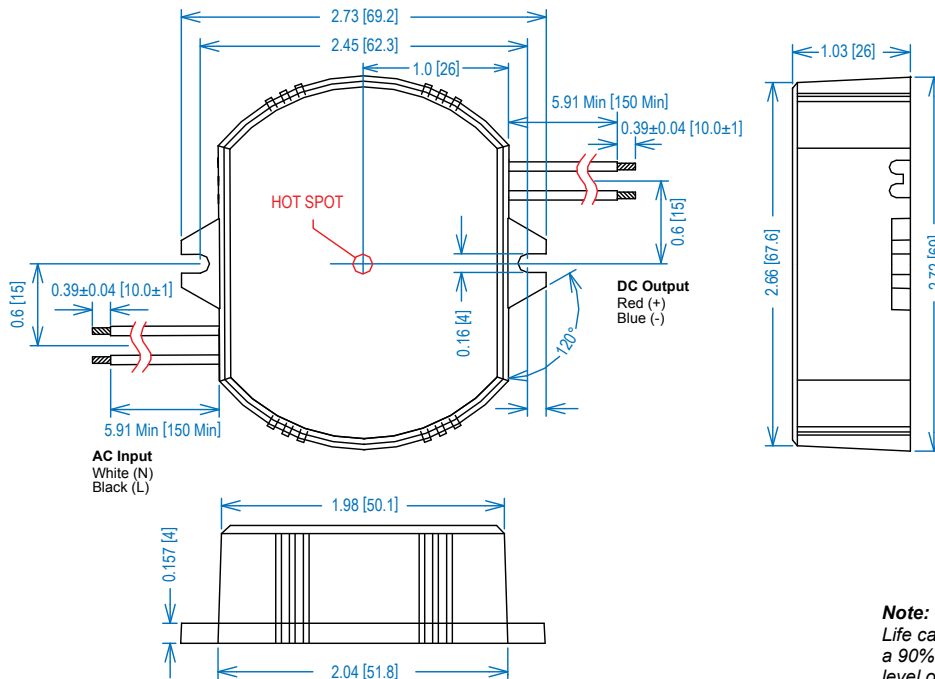| Model Number	Output Current (mA ±5%)	Output Voltage Range (Vdc)	Max. Output Power (W)	Typical Efficiency
BLED20W-200-C0100	100	120-200	20	88
BLED20W-150-C0130	130	90-150	20	88
BLED20W-100-C0200	200	60-100	20	87
BLED20W-057-C0350	320	34-57	20	87
BLED20W-048-C0420	420	29-48	20	86
BLED20W-043-C0465	465	26-43	20	86
BLED20W-040-C0500	500	24-40	20	85
BLED20W-036-C0550	550	21-36	20	85
BLED20W-028-C0700	700	17-28	20	84
BLED20W-024-C0830	830	14-24	20	84
BLED20W-022-C0900	900	13-22	20	83
BLED20W-018-C1110	1110	11-18	20	83
BLED20W-015-C1330	1330	9-15	20	82
BLED20W-012-C1700	1700	7-12	20	81

Class 2: US/Canada

E332160

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.
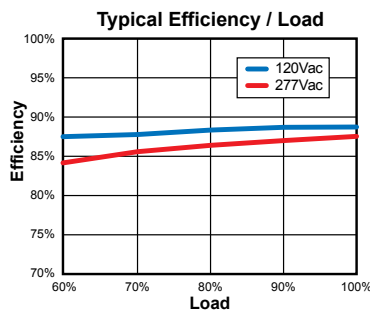
Rev 6-6-16

Dimensions - mm

HOT SPOT

2.73 [69.2]
2.45 [62.3]
1.0 [26]
5.91 Min [150 Min]
0.39±0.04 [10.0±1]
0.6 [15]
0.39±0.04 [10.0±1]
0.6 [15]
0.16 [4]
120°

DC Output
Red (+)
Blue (-)

5.91 Min [150 Min]

AC Input
White (N)
Black (L)

1.03 [26]
2.66 [67.6]
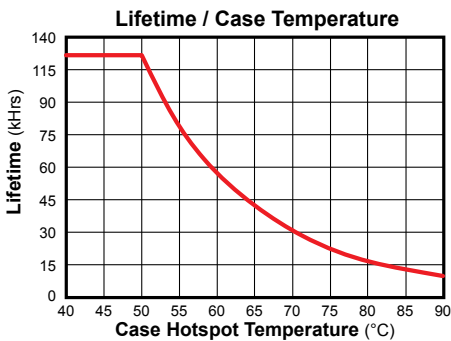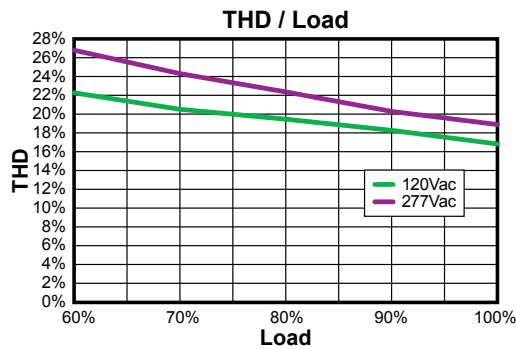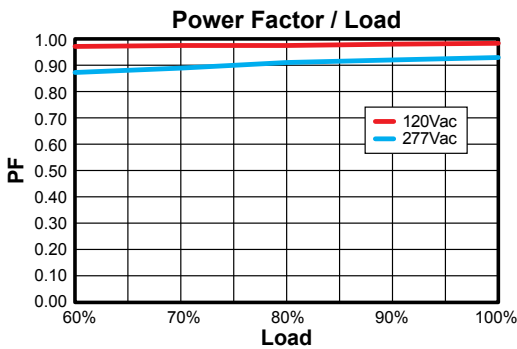2.72 [69]

0.157 [4]
1.98 [50.1]
2.04 [51.8]

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.

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)

Power Factor / Load

THD / Load

Lifetime / Case Temperature

Typical Efficiency / Load

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.