



LED16W-LT Series— Line Voltage Dimmable

Constant Current LED Drivers

CCR Dimming: <10%-100%, ELV & Triac dimmable drivers

Black Magic Thermal Advantage™ Plastic Housing

Electrical Specifications

Input Voltage Range:	120V model: 108-132V Min/Max 230V model: 208-300V Min/Max
Frequency:	50/60 Hz Nom. (47-63 Hz Min/Max)
Power Factor:	≥0.90 @ full load (no dimmer)
Inrush Current:	<10.0 Amps @ 120Vac, cold start 25°C, max load
Input Current:	0.21 Amps @ 120Vac, 60Hz, max load 0.16 Amps @ 230Vac, 60Hz, max load
Maximum Power:	16W
Line Regulation:	± 3%
Load Regulation:	± 5%
THD:	<20% @ Full Load (No Dimmer)
Start-Up Time:	0.7 seconds
Output Protection:	Over-Voltage, Over-Current, and Short Circuit Protection with Auto Recovery

Environmental Specifications

Maximum Case Temp.	90°C
Minimum Starting Temp:	-30°C
Storage Temperature:	-40°C to +85°C
Humidity:	5% to 95%
Cooling:	Convection
Vibration Frequency:	5 to 55 Hz/2g, 30 minutes
Sound Rating:	Class A
Impact Resistance:	1g/s
Lifetime:	50,000 hrs @ Tc=62°C (see graph for details)
MTBF:	402,000 Hours @ full load, 40°C ambient conditions per MIL-217F Notice 2
EMC:	FCC 47CFR Part 15 Class B compliant
Weight:	5.8 oz. (165 g)



- Total Power: 16 Watts
- Input Voltage: 120Vac or 230-277Vac Phase Dimming Ranges
- UL Dry & Damp Location Rated
- UL Type HL Rated for Hazardous Locations
- IP66 & NEMA4
- Compatible with Triac (leading edge) and ELV (electronic low voltage; trailing edge) dimmer controls
- Use a dimmer that closely matches the load, just slightly larger. (EX: For best performance, use a 150W rated dimmer for 100W total LED load instead of 600W dimmer.)

120Vac Input - ELV & Triac Dimming Specifications

Model Number	Output Current (mA ±5%)	Output Voltage Range (Vdc)	Max. Output Power (W)	Typical Efficiency
LED16W120-046-C0350-LT	350	28-46	16	85%
LED16W120-036-C0450-LT	450	22-36	16	85%
LED16W120-030-C0550-LT	550	18-30	16.5	84%
LED16W120-028-C0600-LT	600	17-28	16.8	84%
LED16W120-024-C0700-LT	700	14-24	16.8	83%
LED16W120-014-C1140-LT	1140	8-14	16	82%
LED16W120-012-C1330-LT	1330	7-12	16	82%

230-277Vac Input - ELV & Triac Dimming Specifications

Model Number	Output Current (mA ±5%)	Output Voltage Range (Vdc)	Max. Output Power (W)	Typical Efficiency
LED16W230-046-C0350-LT	350	28-46	16	85%
LED16W230-036-C0450-LT	450	22-36	16	85%
LED16W230-030-C0550-LT	550	18-30	16.5	84%
LED16W230-028-C0600-LT	600	17-28	16.8	84%
LED16W230-024-C0700-LT	700	14-24	16.8	83%
LED16W230-014-C1140-LT	1140	8-14	16	82%
LED16W230-012-C1330-LT	1330	7-12	16	82%



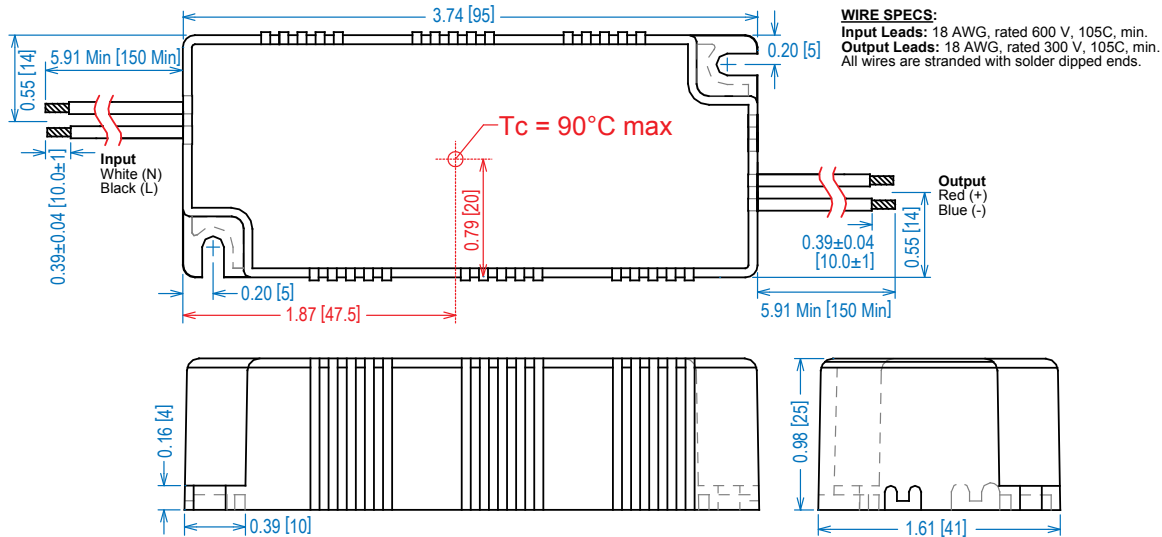
Class 2: US/Canada

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.

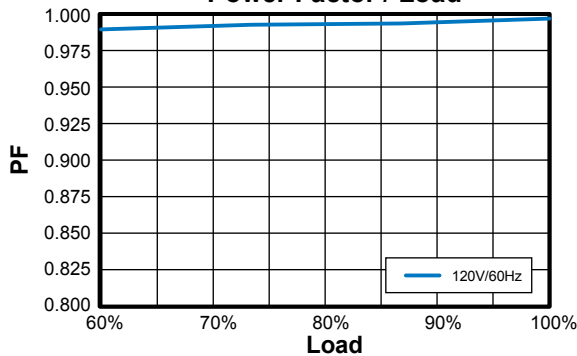
Specifications subject to change without notice.

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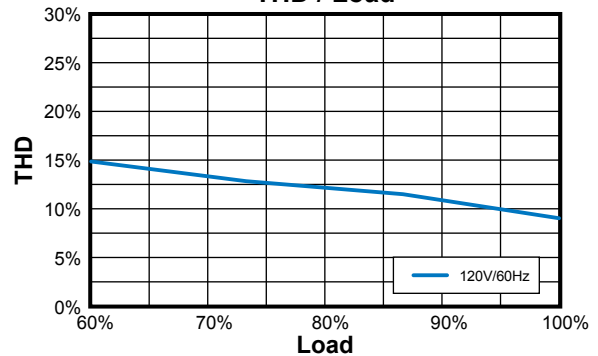
Dimensions - Inches (mm)



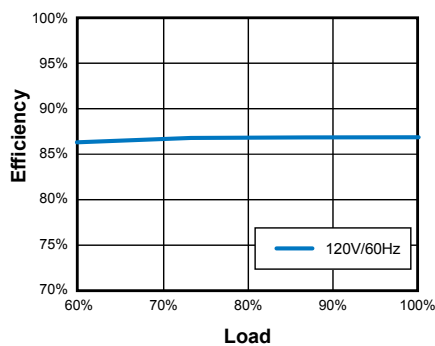
Power Factor / Load



THD / Load



Typical Efficiency / Load



Safety Certification	Standard
UL/CUL	UL8750, UL1310 for UL Class 2 & CAN/CSA C22.2 No. 250.13, UL Type HL
CE	EN 61347-1, EN61347-2-13
EMC Standard	Notes
EN 55015	Conducted emission
EN 61000-3-2	RFE Field Susceptibility test
EN 61000-3-3	Electrical Fast Transient
EN 61000-4-5	Surge Immunity Test, 2 kV; L-N
Energy Star	ANSI/IEEE C62.41.1-2002 and ANSI/IEEE C62.41.2-2002
FCC, 47 CFR Part 15	Class B

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)

UL Conditions of Acceptability

See website for additional information



LED16W-LT Series

SSL Solutions Faster Than The Speed Of Light®

Pg 3 of 3

