



LED16W-LT Series

Line Voltage Dimmable Constant Current LED Drivers

Rev 07-19-2017



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, 120Vac-277Vac
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

Protections

Over-voltage	Over-Voltage, Over-Current
Short Circuit	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)



120Vac Input - ELV & Triac Dimming Models

Model	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 Models

Model	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

- 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

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

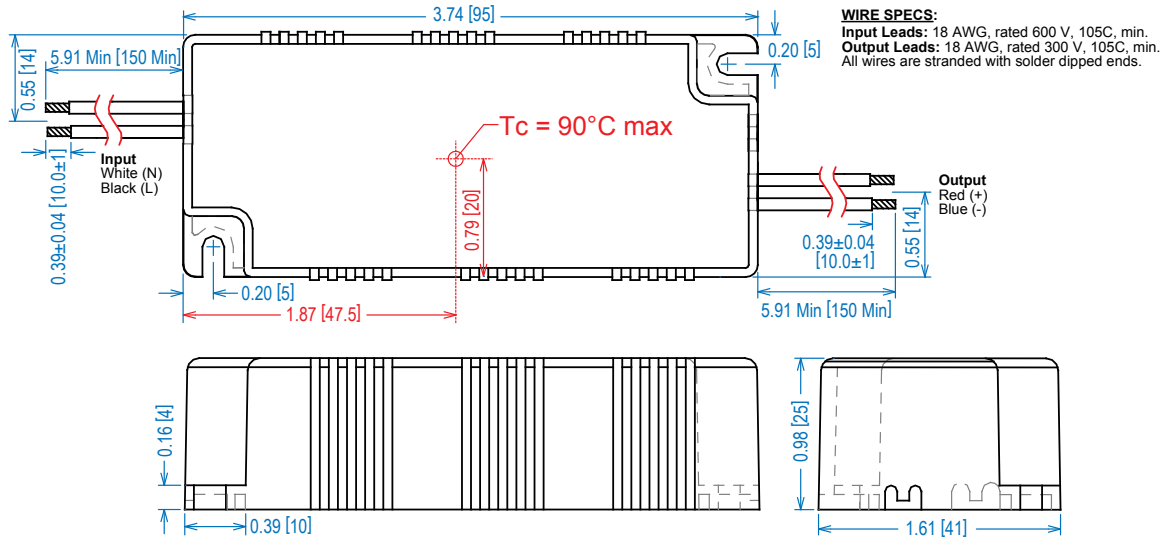
EN 61000-4-5 Surge Immunity Test, 2 kV; L-N

Energy Star ANSI/IEEE C62.41.1-2002 and ANSI/IEEE C62.41.2-2002

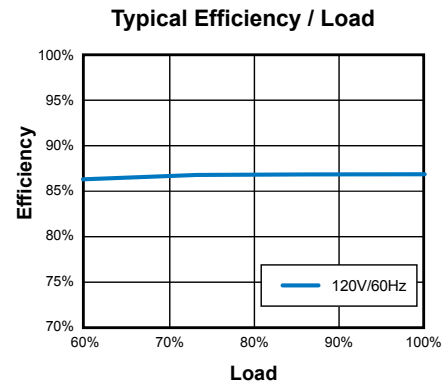
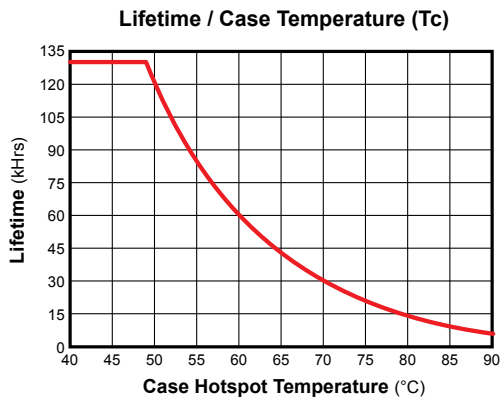
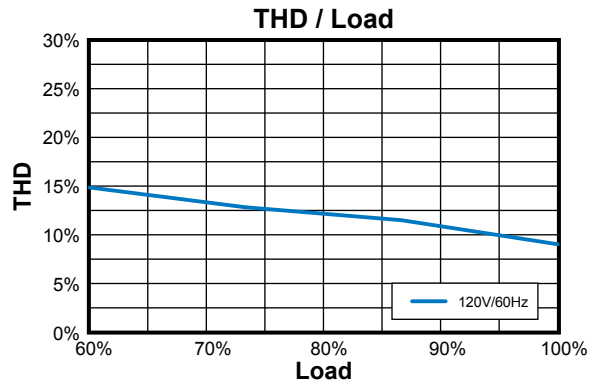
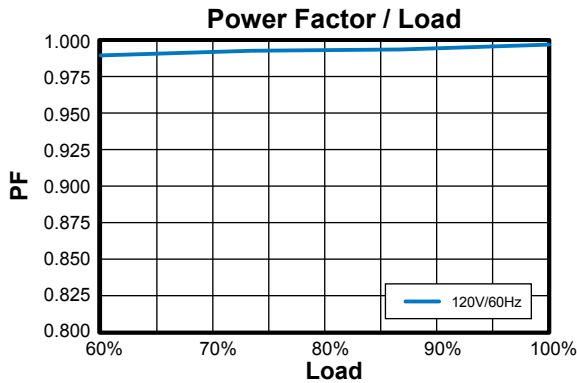
FCC, 47 CFR Part 15 Class B



Dimensions



Power Characteristics



UL Conditions of Acceptability

See website for additional information

Note: The area under the life-temperature curve represents where the driver has highly reliable operation within specification. Driver performance may drift out of published specifications as the hours of operation exceed the curve at a given temperature. Higher operating temperatures increase the chances of a failure to function. Other electrical, mechanical and environmental factors affect driver lifetime but are not represented in this calculation.

Dimming

