



LED12W-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:	0.14 Amps @ 120Vac, 60Hz, max load 0.08 Amps @ 230Vac, 60Hz, max load
Maximum Power:	12W
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=64°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:	4.5 oz. (128 grams)

- Total Power: 12 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 Models

Model	Output Current (mA ±5%)	Output Voltage Range (Vdc)	Max. Output Power (W)	Typical Efficiency
LED12W120-048-C0250-LT	250	29-48	12	85%
LED12W120-040-C0300-LT	300	24-40	12	85%
LED12W120-036-C0350-LT	350	22-36	12	84%
LED12W120-024-C0500-LT	500	14-24	12	83%
LED12W120-016-C0800-LT	800	10-16	12	82%
LED12W120-012-C1000-LT	1000	7-12	12	81%

230-277Vac Input - ELV & Triac Dimming Models

Model	Output Current (mA ±5%)	Output Voltage Range (Vdc)	Max. Output Power (W)	Typical Efficiency
LED12W230-048-C0250-LT	250	29-48	12	85%
LED12W230-040-C0300-LT	300	24-40	12	85%
LED12W230-036-C0350-LT	350	22-36	12	84%
LED12W230-024-C0500-LT	500	14-24	12	83%
LED12W230-016-C0800-LT	800	10-16	12	82%
LED12W230-012-C1000-LT	1000	7-12	12	81%

Class 2: US/Canada

Safety Certification Standard

UL/CUL: UL8750, UL1310 for UL Class 2 & CAN/CSA C22.2 No. 250.13, UL Type HL

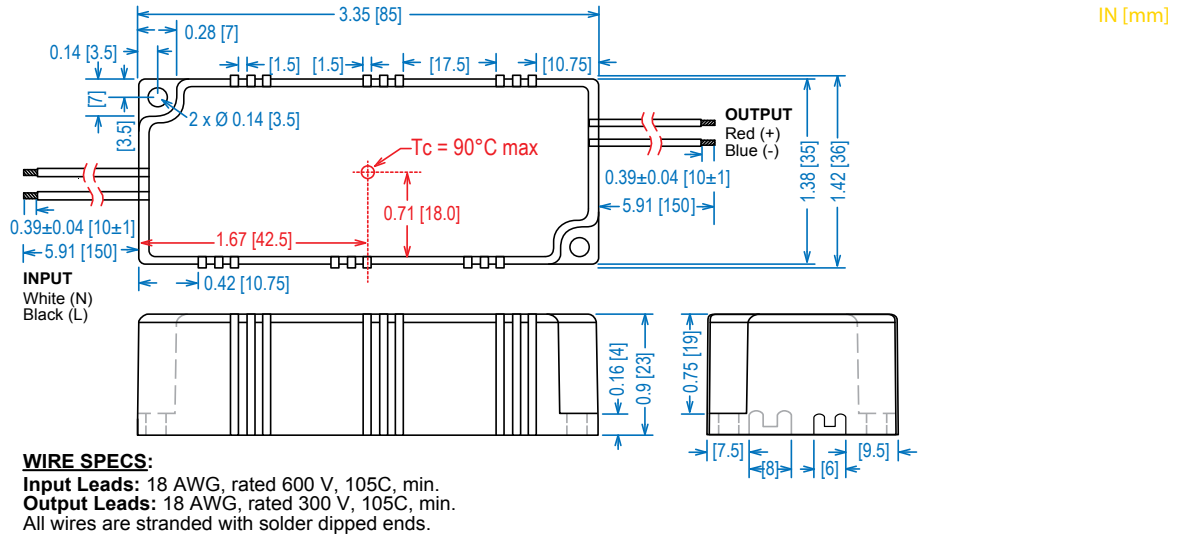
CE: EN 61347-1, EN61347-2-13

EMC Standard Notes

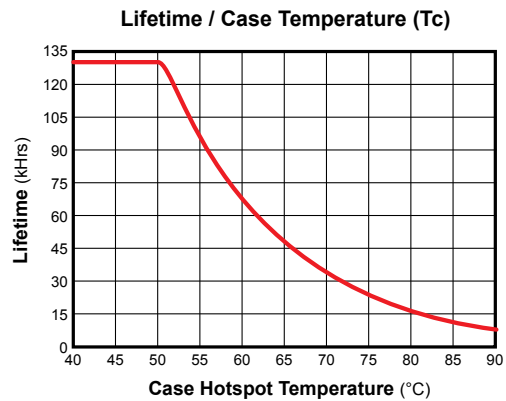
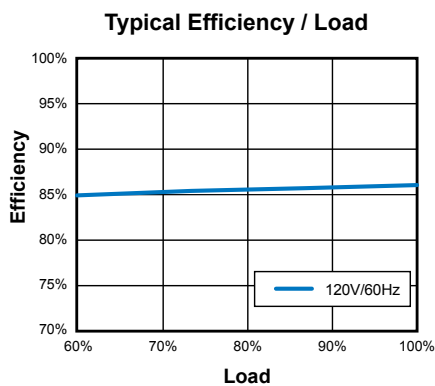
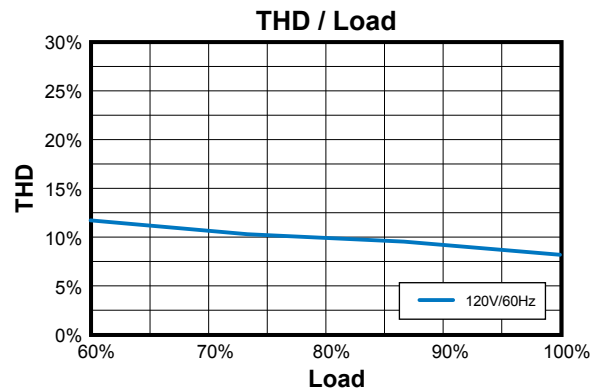
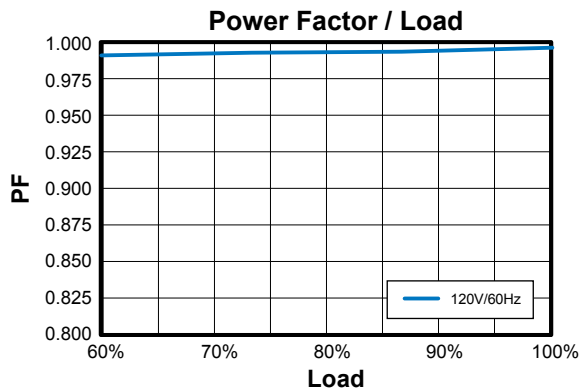
EN 55015	Conducted emission
EN 61000-3-2	RFE Field Susceptibility test
EN 61000-3-3	Electrical Fast Transient
EN 61000-4-5	Surge Immunity Test, 2 kV; L-N
Energy Star	ANSI/IEEE C62.41.1-2002 and ANSI/IEEE C62.41.2-2002
FCC, 47 CFR Part 15	Class B



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

