



LED12W-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:	0.14 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
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=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 g)



- 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 Specifications

Model Number	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 Specifications

Model Number	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



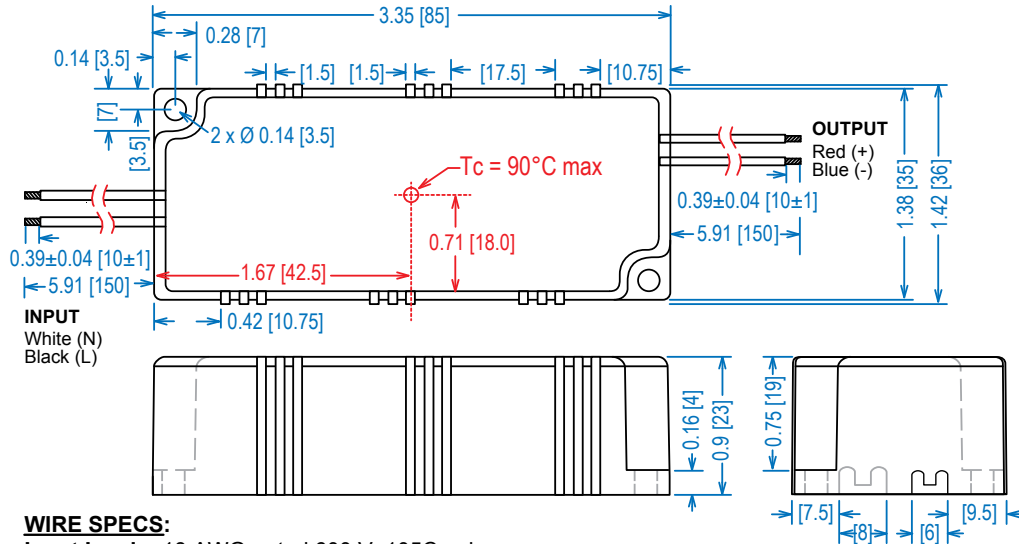
Note:
LED drivers are designed and intended to operate LED loads only. Non-LED loading may be outside the specified design limits of our LED drivers, and therefore cannot be covered by any warranty. If you desire to use our LED drivers to operate non-LED loads please contact us to discuss compatibility.

Specifications subject to change without notice.

Rev 10-11-16



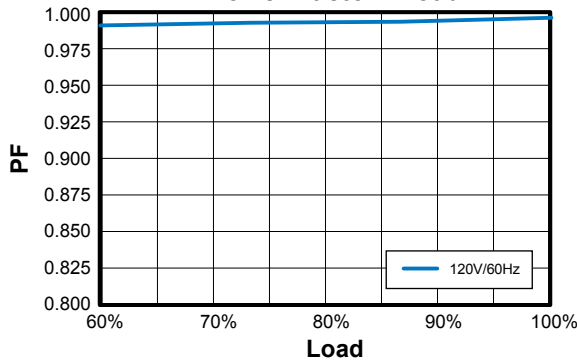
Dimensions - Inches (mm)



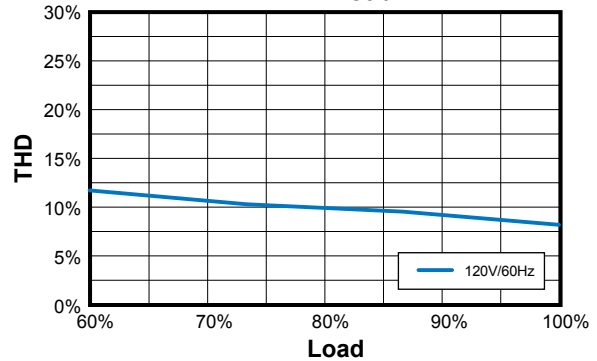
WIRE SPECS:

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.

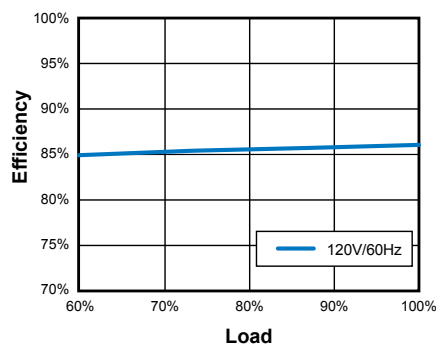
Power Factor / Load



THD / Load



Typical Efficiency / Load

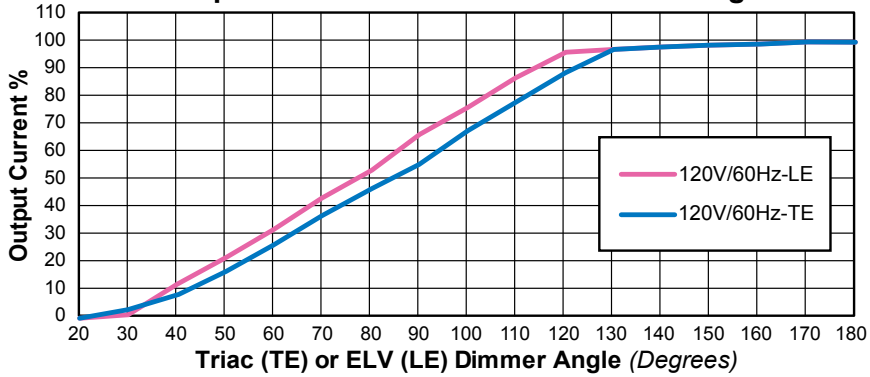


Safety Certification	Standard
UL/CUL	UL8750, UL1310 for UL Class 2 & CAN/CSA C22.2 No. 250.13, UL Type HL
CE	EN 61347-1, EN61347-2-13
EMC Standard	Notes
EN 55015	Conducted emission
EN 61000-3-2	RFE Field Susceptibility test
EN 61000-3-3	Electrical Fast Transient
EN 61000-4-5	Surge Immunity Test, 2 KV;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

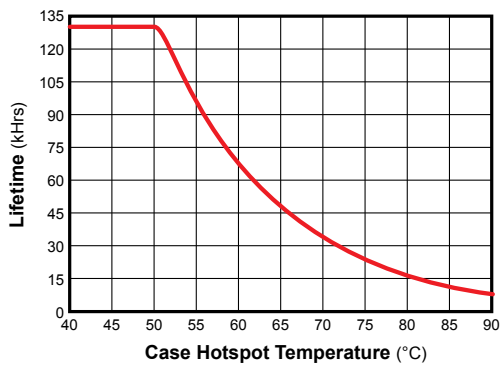
UL Conditions of Acceptability

See website for additional information

Output Current / Dimmer Conduction Angle



Lifetime / Case Temperature (Tc)



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.