



LED-20W Series– Line Voltage Dimmable Constant Current LED Drivers ELV & Inc 100-10% Dimmable Black Magic Thermal Advantage™ Plastic Housing

Electrical Specifications

Input Voltage Range:	120-230 Vac Nom. with dimmer, 100-277 Vac Nom. without dimmer (90-305 V Min/Max)
Frequency:	50/60 Hz Nom. (47-63 Hz Min/Max)
Power Factor:	>0.90 @ full load, 100V through 277V
Inrush Current:	<10 Amps max @ 120Vac, cold start 25°C
Input Current:	0.22 A max 120Vac
Maximum Power:	20W
Current Regulation:	± 5% Over input line variation
Load Regulation:	± 8%
THD:	≤ 20% @ 120V, full load (w/o Dimmer), ≤ 35% @ 277V, full load (w/o Dimmer)
Current Accuracy:	± 4%
Typical Efficiency	85% at 120VAC
Startup Time:	<3.0 Seconds
Protection:	Over-Voltage, Over-Current and Short Circuit Protection with Auto Recovery

Environmental Specifications

Minimum Starting Temp:	-30°C
Maximum Case Temp.	90°C
Storage Temperature:	-40°C to +85°C
Humidity:	5% to 95%
Cooling:	Convection
Sound Rating:	Class A
Vibration Frequency:	5-55 Hz/2g, 30 minutes
MTBF:	412,000 Hours @ full load per MIL-HDBK-217F Notice 2
Lifetime:	82,000 Hours
EMC:	FCC 47CFR Part 15 Class B compliant
Weight:	4.5 oz. (128 g)



- Total Power: 20 Watts
- Input Voltage: 100-277 Vac Nom.
- UL Dry & Damp Location Rated
- IP66 & NEMA4
- High Power Factor
- UL8750, Class 2

ELV Dimming Product Specifications

Model Number	Output Voltage Range (Vdc)	Output Current (mA ±4%)	Max. Output Power (W)	Typical Efficiency
LED20W-40-C0350-TE	20-40	350	14	86%
LED20W-40-C0500-TE	20-40	500	20	86%
LED20W-36-C0550-TE	18-36	550	20	88%
LED20W-28-C0700-TE	14-28	700	19.6	86%
LED20W-17-C1050-TE	8-17	1050	17.8	84%
LED20W-17-C1200-TE	8-17	1200	20	84%
LED20W-12-C1660-TE	7-12	1660	20	84%

For use with electronic low voltage dimmers

INC Dimming Product Specifications

Model Number	Output Voltage Range (Vdc)	Output Current (mA ±4%)	Max. Output Power (W)	Typical Efficiency
LED20W-40-C0350-LE	20-40	350	14	86%
LED20W-40-C0500-LE	20-40	500	20	86%
LED20W-36-C0550-LE	18-36	550	20	88%
LED20W-28-C0700-LE	14-28	700	19.6	86%
LED20W-17-C1050-LE	8-17	1050	17.8	84%
LED20W-17-C1200-LE	8-17	1200	20	84%
LED20W-12-C1660-LE	7-12	1660	20	84%

For use with standard incandescent dimmers

Class 2: US/Canada



Safety & EMC Compliance

UL/CUL	UL8750, CSA-C22.2
C E	EN 61347
FCC Part 15	Class B
EN61000-3-2	
EN61000-3-3	Class C
ANSI/IEEE C62.41.1-2002	Category A
ANSI/IEEE C62.41.2-2002	Category A

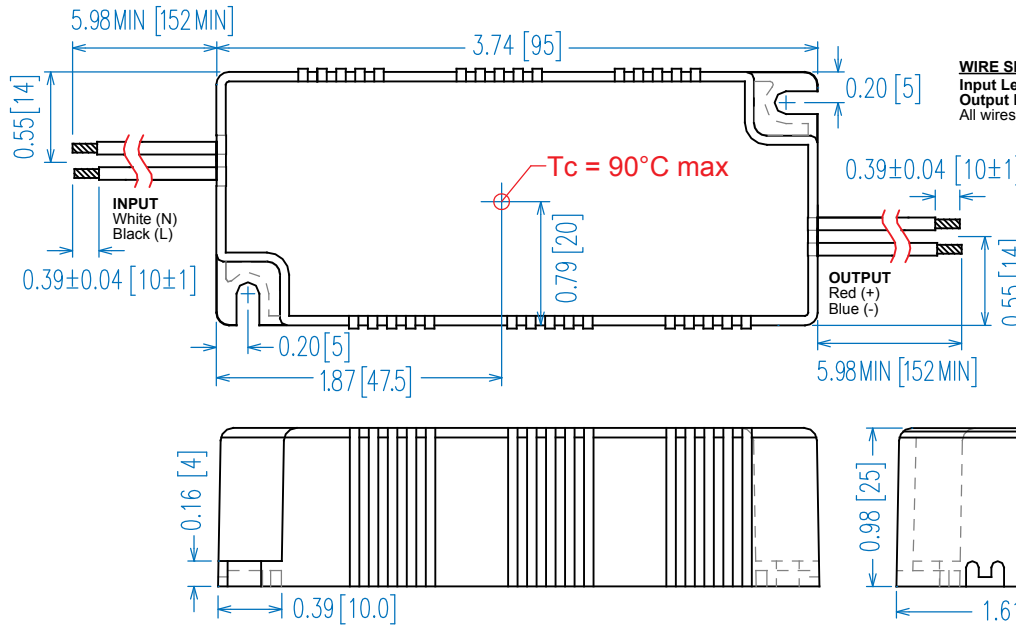
Note:

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.

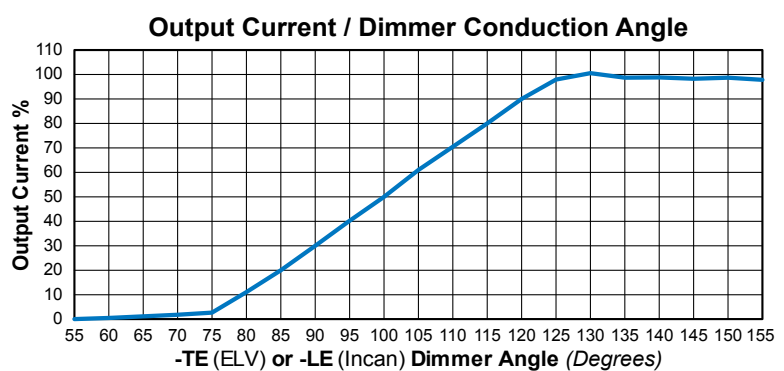
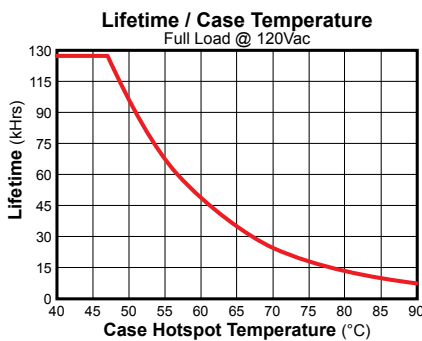
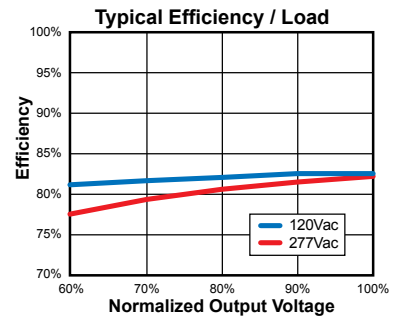
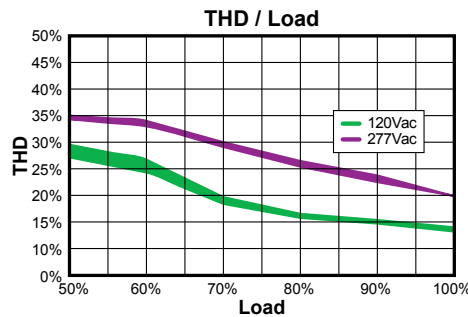
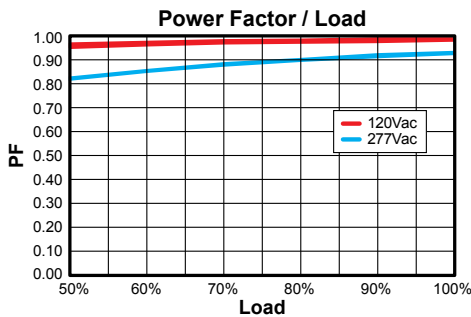
Specifications subject to change without notice.

Rev 8-25-15

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.



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