



# LED Optimized Drivers Triac & ELV Dimmable

## 20 WATT LD20W -LE & -TE Series CONSTANT CURRENT TRIAC & ELV DIMMABLE LED DRIVERS



LE/TE DIMMING  
LD20W LE/TE  
20W

### Model: LD20W -TE/-LE Series

- Designed for use with Triac (-LE) or ELV (-TE) Dimmers 120VAC/230VAC.
- Drive Mode: Constant Current with CCR Dimming
- Output Power: 20W Max.
- Input Voltage: 100-277VAC, 50/60Hz, No Dimmer
- Number of Outputs: One
- Output Voltages: 7VDC - 40VDC
- Output Currents: 350mA - 1660mA

### Environmental

1. Operating temperature: Tc 90C Maximum. Reference -30 to +60°C ambient
2. Storage temperature range: -40 to +85°C
3. Humidity (non-condensing): 5% - 95%RH
4. Cooling: Convection
5. Vibration Frequency: 5-55Hz/2g, 30 minutes
6. Impact resistance: 1g/s
7. MTBF@ 40°C: 412,000 hours @ Full Load per MIL-217F Notice 2.

### Safety and Compliance

1. UL8750, EN61347, CSA 22.2 safety compliant
2. FCC, 47CFR Part 15 Class B compliant
3. Water resistant and Dust Proof Design: IP66, NEMA4, for Dry, Damp, Wet Locations.
4. Compact, Lightweight Design.
5. Safety Isolation between Primary and Secondary
6. Meets EN61000-3-2 & EN61000-3-3 Class C
7. Protection: output over-voltage, output over-current, output short circuit, auto-recovery
8. EN61000-4-5: 2kV L-N, 8/20 µsec surge protection

### Electrical Specifications at 25°C

- Input Voltage: 120VAC/230VAC with dimmer, 100-277VAC Without dimmer.
- Frequency: 50/60HZ
- Power Factor: > 0.90 at full load 120Vac, Full input (No dimmer)
- Inrush current: <10A at 25C, 120V, cold start, Max. Load
- Input current: 0.22A at 120Vac, 60Hz, Maximum Load
- Efficiency: 83% typical at 120Vac 60Hz
- Maximum output power: 20W
- Constant Current regulation: +/-5% Over Input Line Variation
- Load regulation accuracy: +/-8%
- Dimming Range: CCR Mode See Graph page 2.



IP66



### Constant Current Versions

Part Number	US Class 2	CN Class 2	Output Voltage Range	Output Constant Current	Current Accuracy	Output Power Maximum	Typical Efficiency (1)	DIMMER(2)(3)
LD20W-40-C0500-LE	YES	YES	20 - 40 VDC	500mA	±4%	20W	85%	Incandescent
LD20W-40-C0500-TE	YES	YES	20 - 40 VDC	500mA	±4%	20W	84%	ELV
LD20W-36-C0550-LE	YES	YES	18 - 36 VDC	550 mA	±4%	20W	83%	Incandescent
LD20W-36-C0550-TE	YES	YES	18 - 36 VDC	550 mA	±4%	20W	83%	ELV
LD20W-28-C0700-LE	YES	YES	14 - 28 VDC	700 mA	±4%	20W	82%	Incandescent
LD20W-28-C0700-TE	YES	YES	14 - 28 VDC	700 mA	±4%	20W	82%	ELV
LD20W-17-C1200-LE	YES	YES	8 - 17 VDC	1200 mA	±4%	20W	81%	Incandescent
LD20W-17-C1200-TE	YES	YES	8 - 17 VDC	1200 mA	±4%	20W	81%	ELV
LD20W-12-C1660-LE	YES	YES	7 - 12 VDC	1660 mA	±4%	20W	80%	Incandescent
LD20W-12-C1660-TE	YES	YES	7 - 12 VDC	1660 mA	±4%	20W	80%	ELV

### Notes

1. Typical efficiency measured at 120VAC input, full load
2. -TE Versions are ~10% to 100% CCR Dimmable with any good quality 120VAC ELV (Electronic Low Voltage) dimmer. Refer to page 2.
3. -LE Versions are ~10% to 100% CCR Dimmable with any good quality 120VAC or 230VAC Incandescent (Triac) dimmer. Refer to page 2.

20W

LD20W LE/TE

LE/TE DIMMING

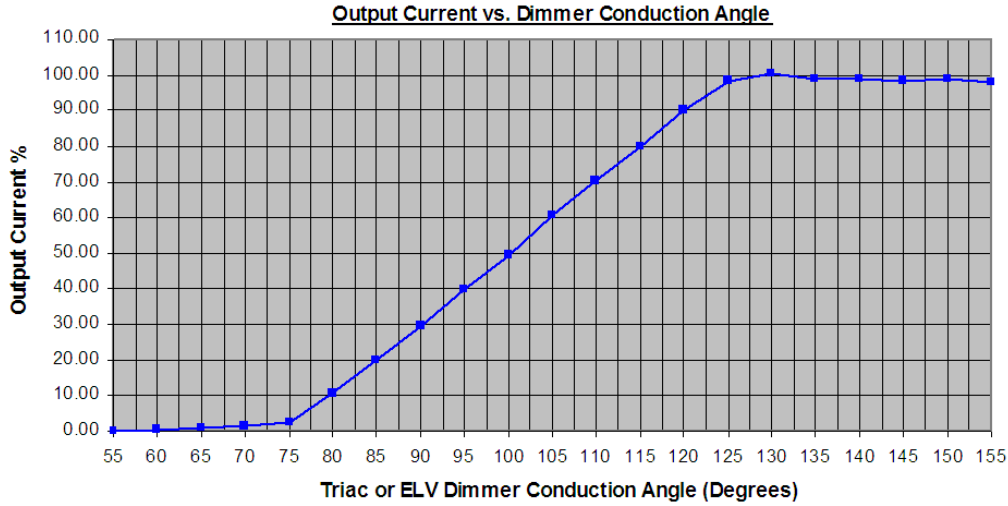


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CONSTANT CURRENT TRIAC & ELV DIMMABLE LED DRIVERS

## Typical Dimming Curves:



## Mechanical Dimensions: Inches [mm]

Material: Black PC ABS Plastic Case  
Fully Encapsulated  
Weight: 128 grams (4.5 oz) Typical

## Labeling Example

