



# LED Optimized Drivers

## 40 Watt — LLD40W Series

CONSTANT VOLTAGE OR CONSTANT CURRENT LED DRIVER



LLD40W Series  
**40W**

### Model: LLD40W Series

- Drive Mode: Constant Current or Constant Voltage
- Technology: PFC Off-Line Switch Mode
- Output Power: 40W Max.
- Input Voltage: 100 to 277VAC, 47~ 63Hz
- Number of Outputs: One
- Output Voltages: 6VDC - 114VDC
- Output Currents: 350mA - 4450mA

### Environmental

1. Operating temperature: -30 to +60°C
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: 448,000 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, for Dry & Damp 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. Transient protection built in.

### Electrical Specifications at 25°C

- Input voltage range: 100 to 277VAC
- Frequency: 47~ 63HZ
- Power Factor: > .92 at full load 120Vac/230Vac 50/60Hz
- Inrush current: <15A at 25C, 230V, cold start, Max. Load
- Input current: 0.5A at 120Vac, 60Hz, Maximum Load
- Efficiency: 85% typical @ 230Vac input, Full Load
- Maximum output power: 40W
- Constant Current regulation: +/-1% Over Input Line Variation
- Load regulation accuracy: +/-3%
- Leakage current: 300uA typical; Hold up time: half cycle

### Constant Current Versions



IP66



Part Number	Output Voltage Range	Output Constant Current	Current Accuracy	Output Power Maximum	Typical Efficiency <sup>(1)</sup>
LLD40W-114-C0350 <sup>(2)</sup>	57 ~ 114 VDC	350 mA	+/-3%	40W	89%
LLD40W-100-C0400 <sup>(2)</sup>	50 ~ 100 VDC	400 mA	+/-3%	40W	88%
LLD40W-89-C0450 <sup>(2)</sup>	45 ~ 89 VDC	450 mA	+/-3%	40W	88%
LLD40W-57-C0700 <sup>(2)</sup>	29 ~ 57 VDC	700 mA	+/-3%	40W	88%
LLD40W-54-C0700 <sup>(4)</sup>	29 ~ 54 VDC	700 mA	+/-3%	38W	88%
LLD40W-36-C1100 <sup>(4)</sup>	18 ~ 36 VDC	1100 mA	+/-3%	40W	88%
LLD40W-36-C0700 <sup>(4)</sup>	18 ~ 36 VDC	700 mA	+/-3%	40W	87%
LLD40W-24-C1670 <sup>(4)</sup>	12 ~ 24 VDC	1670 mA	+/-3%	40W	87%
LLD40W-24-C1400 <sup>(4)</sup>	12 ~ 24 VDC	1400 mA	+/-3%	40W	87%
LLD40W-22-C1820 <sup>(4)</sup>	12 ~ 22 VDC	1820 mA	+/-3%	40W	86%
LLD40W-18-C2200 <sup>(4)</sup>	10-18VDC	2200mA	+/-3%	40W	85%
LLD40W-18-C2000 <sup>(4)</sup>	10-18VDC	2000mA	+/-3%	36W	85%
LLD40W-15-C2680 <sup>(4)</sup>	9-15VDC	2680mA	+/-3%	40W	84%
LLD40W-15-C1660 <sup>(4)</sup>	9-15VDC	1660mA	+/-3%	25W	83%
LLD40W-13-C3080 <sup>(4)</sup>	7-13VDC	3080mA	+/-3%	40W	83%
LLD40W-12-C3330 <sup>(4)</sup>	7-12VDC	3330mA	+/-3%	40W	82%
LLD40W-10-C4000 <sup>(4)</sup>	6-10VDC	4000mA	+/-3%	40W	82%
LLD40W-09-C4450 <sup>(4)</sup>	6-9VDC	4450mA	+/-3%	40W	82%

### Notes

1. Typical efficiency measured at 230VAC input, full load
2. UL & cUL Non-Class 2 Output
3. UL Class 2 Output, cUL Non-Class 2 Output
4. UL & cUL Class 2 Output

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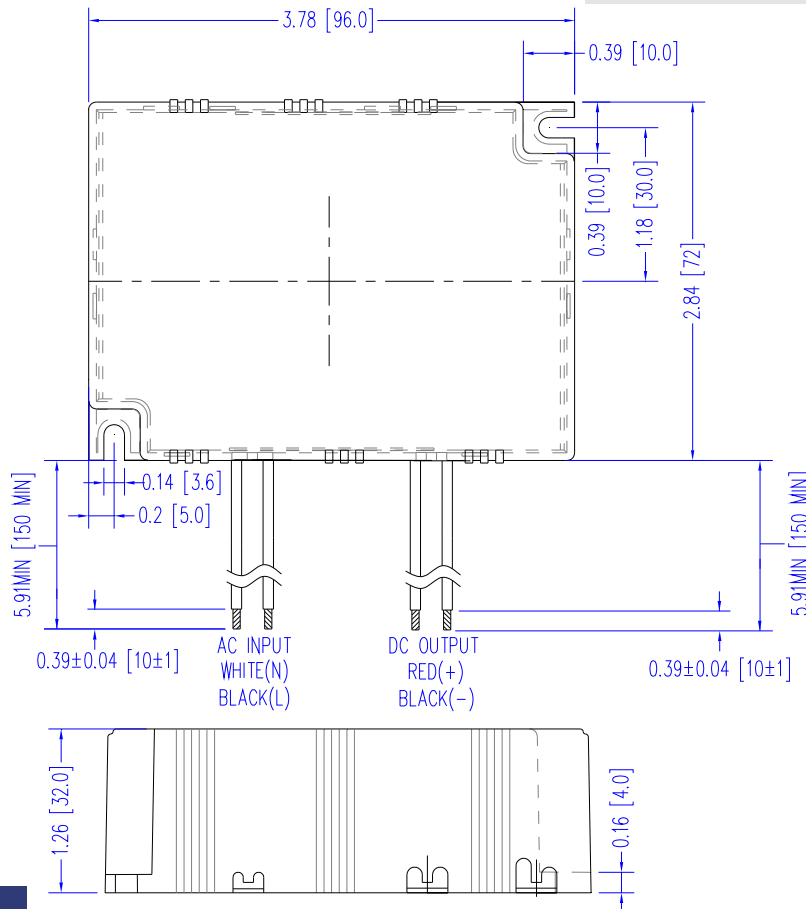
CONSTANT VOLTAGE OR CONSTANT CURRENT LED DRIVER

## Constant Voltage Versions

Part Number	Output Constant Voltage	Output Current Maximum	Voltage Accuracy	Output Power Maximum	Typical Efficiency <sup>(1)</sup>
LLD40W-72 <sup>(2)</sup>	72 VDC	350 mA	+/-5%	40W	88%
LLD40W-62 <sup>(2)</sup>	62 VDC	400 mA	+/-5%	40W	87%
LLD40W-89 <sup>(2)</sup>	89VDC	450mA	+/-5%	40W	88%
LLD40W-57 <sup>(2)</sup>	57VDC	700mA	+/-5%	40W	88%
LLD40W-54 <sup>(4)</sup>	54VDC	700mA	+/-5%	38W	88%
LLD40W-36 <sup>(4)</sup>	36VDC	1100mA	+/-5%	40W	88%
LLD40W-24 <sup>(4)</sup>	24VDC	1670mA	+/-5%	40W	87%
LLD40W-22 <sup>(4)</sup>	22VDC	1820mA	+/-5%	40W	87%
LLD40W-18 <sup>(4)</sup>	18VDC	2200mA	+/-5%	40W	86%
LLD40W-15 <sup>(4)</sup>	15VDC	2680mA	+/-5%	40W	86%
LLD40W-13 <sup>(4)</sup>	13VDC	3080mA	+/-5%	40W	86%
LLD40W-12 <sup>(4)</sup>	12VDC	3330mA	+/-5%	40W	85%
LLD40W-10 <sup>(4)</sup>	10VDC	4000mA	+/-5%	40W	85%
LLD40W-09 <sup>(4)</sup>	9VDC	4450mA	+/-5%	40W	85%

## Mechanical Dimensions: Inches [mm]

Material: Black PC ABS Plastic Case  
Fully Encapsulated  
Weight: 311 grams (11 oz) Typical



## Labeling Example

DC Output + = RED - = BLACK		LED Optimized Driver Etronics, Inc. www.EPtronics.com 800 643-0688/310 536-0700	AC Input L = BLACK N = WHITE
REV D			
<b>Part Number: LLD40W-54-C0700</b>			
<b>Input Voltage: 100~277 VAC 47~63 Hz</b>			
<b>Input Current: 0.50 Amp Max</b>			
<b>Output Voltage: 29-54 VDC</b>			
<b>Output Current: 700 mA Constant Current</b>			
<b>Maximum Output Power: 40 Watts</b>			
<b>UL &amp; cUL Class 2 Output</b>			
IP66			
Made in China E325626			
HG			