



**PLEDDC-150W Series, Fixed Output & Dimmable  
AC or DC Input  
Flicker-Free LED Drivers  
Constant Current & Constant Voltage with Isolation  
Black Magic Thermal Advantage™ Aluminum Housing**

**Electrical Specifications**

Input Voltage Range: 100-277 Vac Nom. (90-305 V Min/Max), 108-250 Vdc  
 Frequency: 50/60 Hz Nom. (47-63 Hz Min/Max)  
 Power Factor: >0.90 @ > 70% load, 120-277V  
 Inrush Current: <30 Amps max @ 277Vac, cold start, full load  
 Input Current: 0.76 Amps max @ 230Vac, 1.44 A max @ 120Vac  
 Maximum Power: 150W  
 Current Accuracy: ± 3%  
 Load Regulation: ± 4%  
 THD: ≤ 20% @ > 70% load, 120-277V  
 Ripple & Noise: 5% Vo max @ 20 MHz BW, Full load output in parallel with 0.1 µF ceramic & 10 µF Electrolytic (Vpk-pk)  
 Ripple: 5% Io max @ 20 MHz BW, Full load output in parallel with 0.1 µF ceramic & 10 µF Electrolytic. 120 Hz component (Flicker Free) (Ipk-pk)  
 Start-up Time: 150mS typical @ Full Load, 120Vac/60Hz (1000mS max)  
 Leakage Current: 0.68 mA max @ 120Vac, 0.75 mA max @ 277Vac  
 Hold Up Time: 30mS typical @ Full Load, 277Vac  
 Protection: Over-Voltage, Over-Current, and Short Circuit (reset by power cycling)

**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  
 Vibration Frequency: 5-55 Hz/2g, 30 minutes  
 Sound Rating: Class A  
 MTBF: 260,000 Hours at full load and 40°C ambient conditions per MIL-217F Notice 2  
 EMC: FCC 47CFR Part 15 Class B compliant  
 Impact Resistance: 1g/s  
 Weight: 24.4 oz (690 grams)



- Total Power: 150 Watts
- Input Voltage: 100-277 Vac Nom. or 108-250 Vdc
- UL Dry & Damp Location Rated
- IP66 & NEMA6
- High Power Factor
- UL Type HL Rated for Hazardous Locations

**Constant Current Versions - Product Specifications**

Model Number	Output Current (mA ±5%)	Output Voltage Range (Vdc)	Max Output Power (W)	Typical Efficiency
PLEDDC150W-428-C0350-XX	350	142-428	150	92%
PLEDDC150W-333-C0450-XX	450	111-333	150	92%
PLEDDC150W-283-C0530-XX	530	95-283	150	91%
PLEDDC150W-214-C0700-XX	700	72-214	150	91%
PLEDDC150W-142-C1050-XX	1050	48-142	150	91%
PLEDDC150W-107-C1400-XX	1400	36-107	150	91%
PLEDDC150W-085-C1750-XX	1750	29-85	150	90%
PLEDDC150W-071-C2100-XX	2100	24-71	150	90%
PLEDDC150W-061-C2450-XX	2450	21-61	150	90%
PLEDDC150W-053-C2800-XX	2800	18-53	150	90%
PLEDDC150W-048-C3150-XX	3150	16-48	150	89%
PLEDDC150W-042-C3500-XX	3500	14-42	150	89%
PLEDDC150W-035-C4200-XX	4200	12-35	150	89%
PLEDDC150W-030-C4900-XX	4900	10-30	150	88%
PLEDDC150W-024-C6250-XX	6250	8-24	150	88%

-XX indicates dimming options are available. See options at left. Blank = fixed current output

**Constant Voltage Versions - Product Specifications**

Model Number	Output Voltage (Vdc ±5%)	Output Current Range (mA)	Max Output Power (W)	Typical Efficiency
PLEDDC150W-024	24	1563-6250	150	88%
PLEDDC150W-030	30	1225-4900	150	88%
PLEDDC150W-035	35	1050-4200	150	89%
PLEDDC150W-042	42	875-3500	150	89%
PLEDDC150W-048	48	788-3150	150	89%
PLEDDC150W-053	53	700-2800	150	90%
PLEDDC150W-061	61	613-2450	150	90%
PLEDDC150W-071	71	525-2100	150	90%
PLEDDC150W-085	85	438-1750	150	90%
PLEDDC150W-107	107	350-1400	150	91%
PLEDDC150W-142	142	263-1050	150	91%
PLEDDC150W-214	214	175-700	150	91%
PLEDDC150W-283	283	133-530	150	91%
PLEDDC150W-333	333	113-450	150	92%
PLEDDC150W-428	428	88-350	150	92%

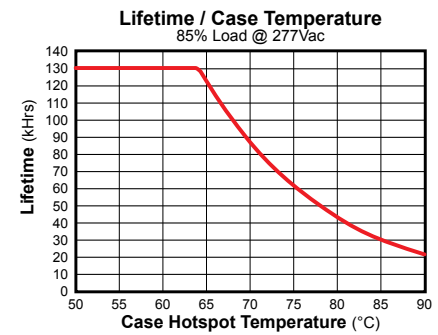
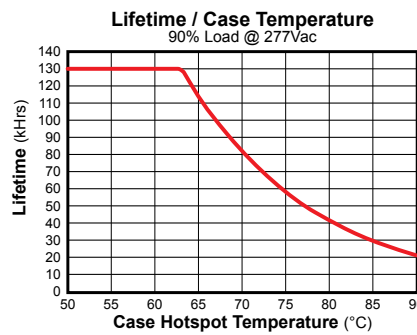
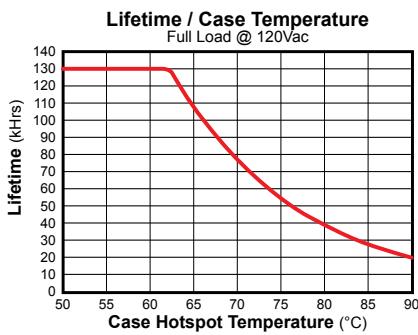
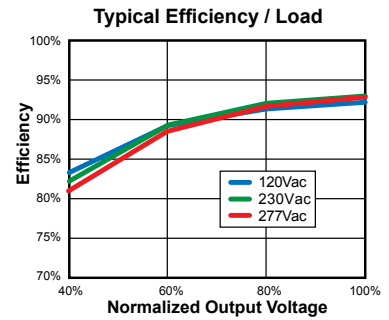
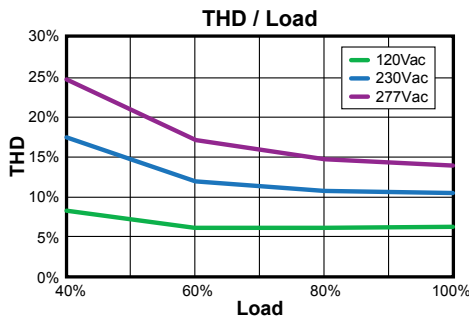
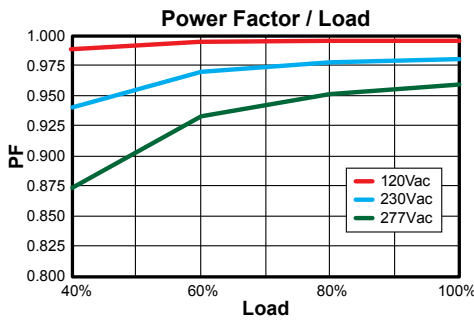
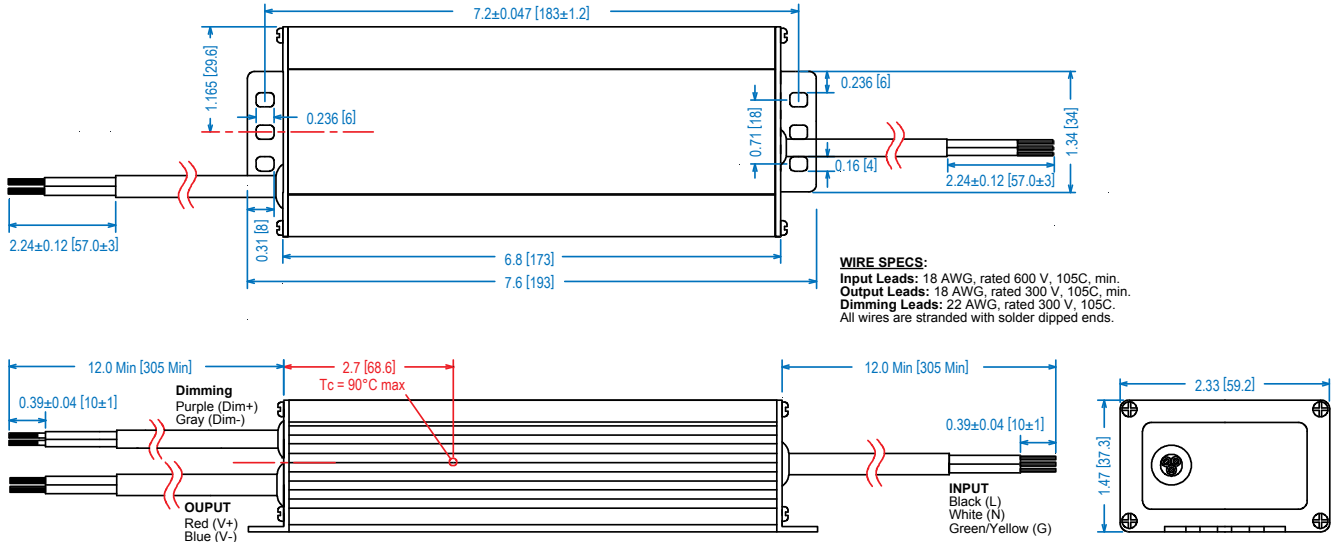
**Ordering Options:**

-D: 0-10V & Resistance dimmable models dim 100-10%. Two extra wires on the output side (+Purple/-Gray). Compatible with most quality 0-10V wall dimmers. See page 3.  
 -PD: PWM Dimmable models. Two extra wires on the output side(+Purple/-Gray). Dims via positive 10% to 100% Duty Cycle, 200Hz to 1KHz, 0-10V Pulse. See page 4.



**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.

**Dimensions - Inches (mm)**



Safety and EMC Compliance	
UL/CUL	UL8750 & CAN/CSA-22.2 No. 250.13-12, UL1012/CSA-C22.2 No.107.1
CE	EN 61347-1, EN61347-2-13
FCC, 47CFR Part 15	Class B
EN 55015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment.
EN 61000-3-2	Part 3-2: Limits for harmonic current emissions Class C, >80% Rated Power
EN 61000-3-3	Part 3-3: Limitation of voltage changes, voltage fluctuations and flicker.
EN 61000-4-5	Part 4-5: Surge Immunity test, 2 kV L-N, 4 kV L-G & N-G

**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)

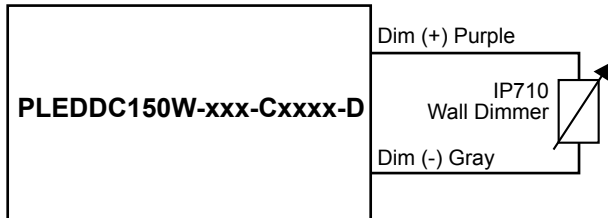
**UL Conditions of Acceptability**

See website for additional information

### "-D" Option: 0-10VDC and Resistance Dimming

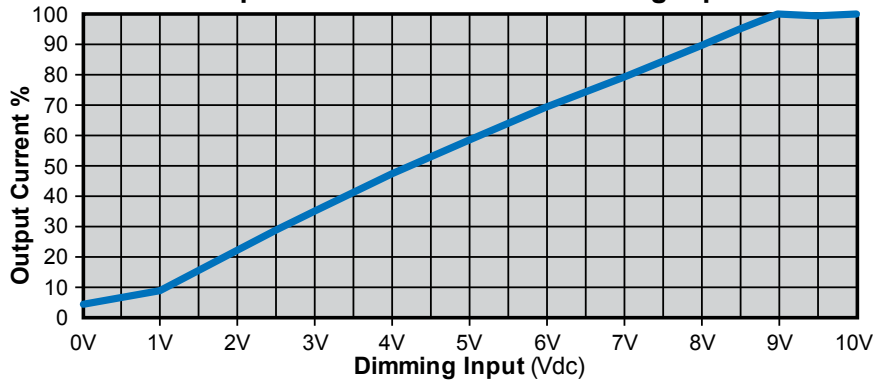
Parameters	Minimum	Typical	Maximum
10V Output, Yellow Wire	9.2V	10.0V	10.8V
10 Output Source Current, Purple Wire	0mA	—	10mA
Absolute Voltage Range on 0-10V (+) Purple Wire	-2.0V	—	+15V
Source Current out of 0-10V Purple Wire	0mA	—	2mA

#### Typical Dimming Circuit



(Dimmer must be current-sink type control)

#### Output Current / 0-10VDC Dimming Input



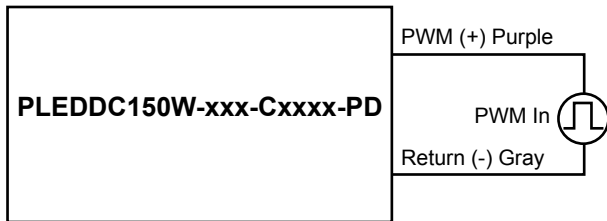
#### Notes:

1. 0-10V dimmable version comes with an extra two wires +Purple/-Gray on the output side.
2. Compatible with most 0-10V Wall Slide dimmers and direct 0-10V analog signal. Recommended dimmer is Leviton IP710 or equivalent
3. 0-10V dimmable version is not intended to dim to zero (off). Will be lout <10% @ Vdim <1.0V
4. 0-10V dimmable version output will be 100% with Purple/Gray open and minimum with Purple/Gray Shorted.

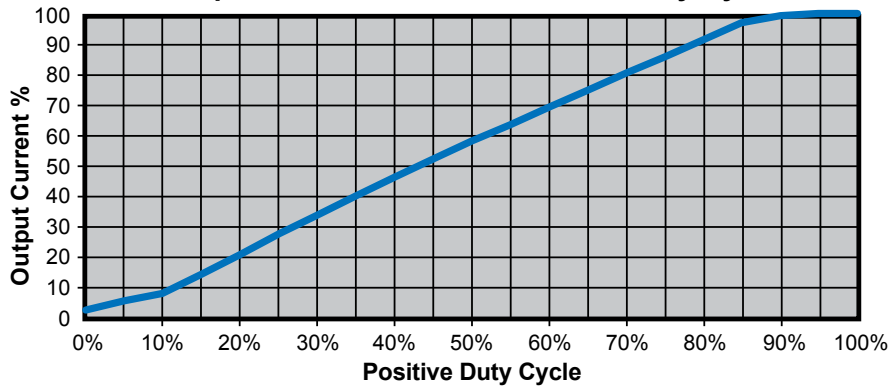
**"-PD" Option: PWM Dimming**

Parameters	Minimum	Typical	Maximum
Absolute Maximum Voltage Range on PWM Input (Purple Wire)	-2.0V	10V	+15V
Input LOW Level Voltage Range (Purple Wire)	-2.0	0V	+5.5V
Input HIGH Level Voltage Range (Purple Wire)	+9.0	10V	+15V
Current into PWM Input (Purple Wire)	0mA	—	1.2mA
Source Current out of PWM Input (Purple Wire)	0mA	—	2mA
PWM Input Signal Frequency	500Hz	—	1500Hz
PWM Input Signal Positive Duty Cycle	0%	10-90%	100%

**PWM Positive Dimming Typical Circuit**



**Output Current / 1.0 kHz Positive Duty Cycle**



**Notes:**

1. PWM Dimmable version comes with an extra 2 wires +Purple/-Gray on the output side.
2. Below 10% Duty cycle proper dimming operation is not assured. Unit is not intended to turn off at <10% Duty Cycle.