



**PLEDDC-120W 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 @ 277 Vac, cold start, full load
 Input Current: 0.60 Amps max @ 230 Vac, 1.10 A max @ 120 Vac
 Maximum Power: 120W
 Line Regulation: ± 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
 Output Protection: Over-Voltage, Over-Current, and Short Circuit (reset by power cycling)

Environmental Specifications

Max Case Life Temp: 75°C (5 year warranty)
 Minimum Starting Temp: -30°C
 Max Case Temp (UL): 90°C
 UL Type TL Rating: Non-Class 2: 90/82°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: 280,000 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)

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.



- Total Power: 120 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
PLEDDC120W-343-C0350-XX	350	114-343	120	92%
PLEDDC120W-266-C0450-XX	450	89-266	120	92%
PLEDDC120W-171-C0700-XX	700	57-171	120	91%
PLEDDC120W-114-C1050-XX	1050	38-114	120	91%
PLEDDC120W-086-C1400-XX	1400	29-86	120	91%
PLEDDC120W-068-C1750-XX	1750	23-68	120	91%
PLEDDC120W-057-C2100-XX	2100	19-57	120	90%
PLEDDC120W-049-C2450-XX	2450	17-49	120	90%
PLEDDC120W-043-C2800-XX	2800	15-43	120	90%
PLEDDC120W-038-C3150-XX	3150	13-38	120	90%
PLEDDC120W-034-C3500-XX	3500	12-34	120	89%
PLEDDC120W-028-C4200-XX	4200	10-28	120	89%
PLEDDC120W-024-C5000-XX	5000	8-24	120	89%

-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
PLEDDC120W-024	24	1250-5000	120	89%
PLEDDC120W-028	28	1050-4200	120	89%
PLEDDC120W-034	34	875-3500	120	89%
PLEDDC120W-038	38	788-3150	120	90%
PLEDDC120W-043	43	700-2800	120	90%
PLEDDC120W-049	49	613-2450	120	90%
PLEDDC120W-057	57	525-2100	120	90%
PLEDDC120W-068	68	438-1750	120	91%
PLEDDC120W-086	86	350-1400	120	91%
PLEDDC120W-114	114	263-1050	120	91%
PLEDDC120W-171	171	175-700	120	91%
PLEDDC120W-266	266	113-450	120	92%
PLEDDC120W-343	343	88-350	120	92%



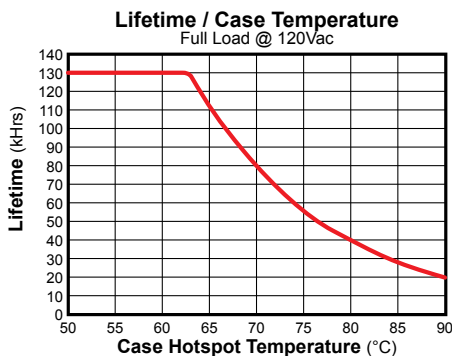
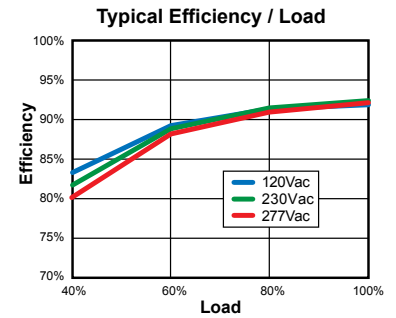
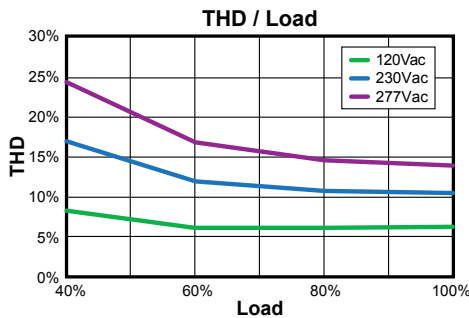
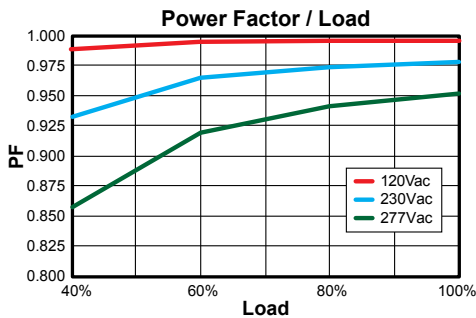
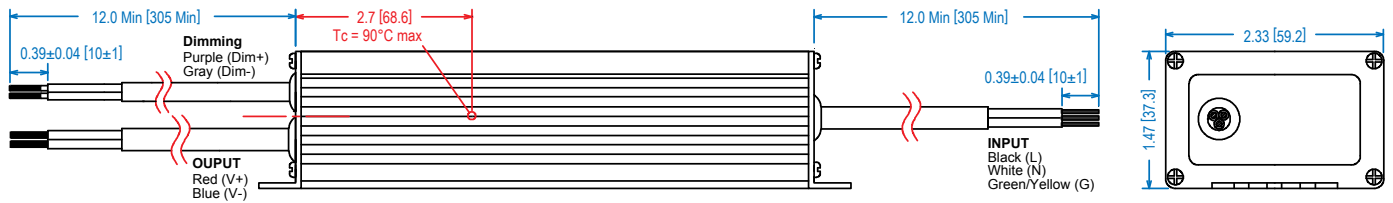
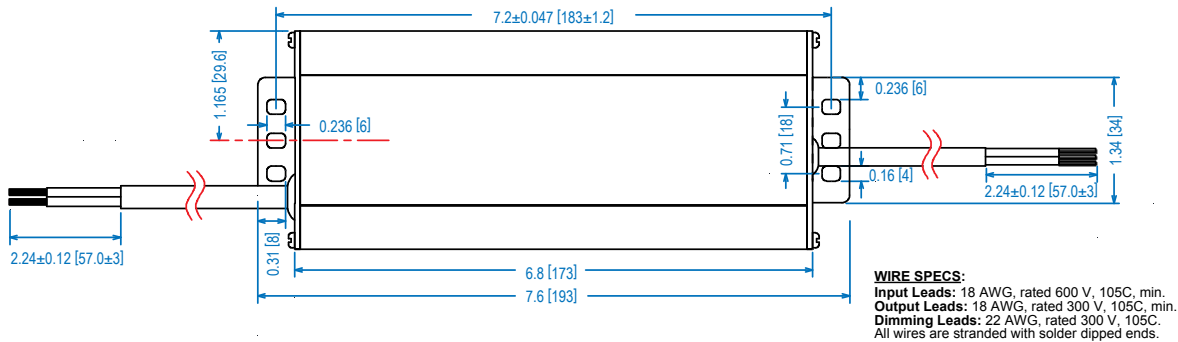
Note:
 LED drivers are designed and intended to operate LED loads only. Non-LED loading may be outside the specified design limits of our LED drivers, and therefore cannot be covered by any warranty. If you desire to use our LED drivers to operate non-LED loads please contact us to discuss compatibility.

Specifications subject to change without notice.

Rev 8-29-17



Dimensions - Inches (mm)



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)

Safety Cert.	Standard
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
EMC Standard	Notes
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

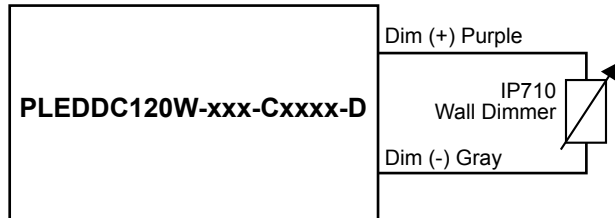
UL Conditions of Acceptability

See website for additional information

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

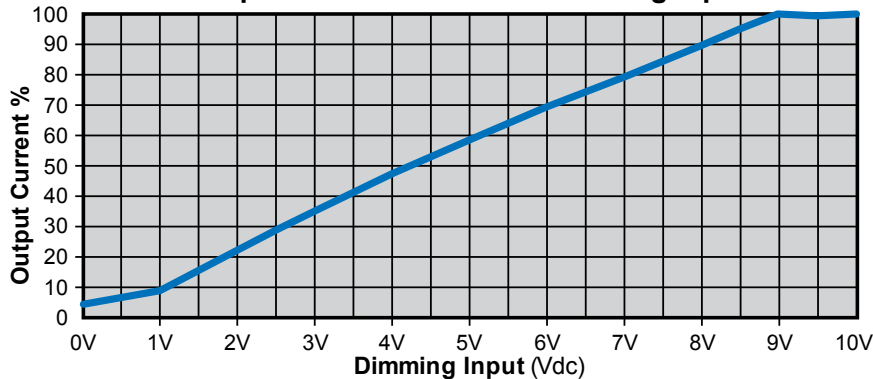
Parameters	Minimum	Typical	Maximum
10V Output Source Current, Purple Wire	0mA	—	10mA
Absolute Voltage Range on 0-10V (+) Purple Wire	-2.0V	—	+15V
Source Current out of 0-10V Purple Wire	0mA	—	2mA

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.