

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),

50/60 Hz Nom. (47-63 Hz Min/Max) Frequency: Power Factor: >0.90 @ > 70% load, 120-277V

<30 Amps max @ 277 Vac, cold start, full load Inrush Current: Input Current: 0.60 Amps max @ 230 Vac, 1.10 A max @ 120 Vac

Maximum Power: 120W ± 3% Line Regulation: 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) 5% Io max @ 20 MHz BW. Full load output Ripple:

in parallel with 0.1 µF ceramic & 10 µFElectrolytic. (lpk-pk)

120 Hz component (Flicker Free)

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

Minimum Starting Temp: Maximum Case Temp.

UL Type TL Rating: Non-Class 2: 90/82°C Storage Temperature: -40°C to +85°C

Humidity: 5% to 95% Coolina: Convection

Vibration Frequency: 5-55 Hz/2g, 30 minutes

Sound Rating: Class A

280,000 Hours at full load and 40°C ambient conditions per MIL-217F Notice 2 MTBF:

EMC: FCC 47CFR Part 15 Class B compliant

Impact Resistance:

Weight: 24.4 oz (690 grams)

120W Constant-Current Dir PLEDDC126W 034-C3600

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

Output Current Max Output

Range (mA)

1250-5000

1050-4200

875-3500

88-350

Power (W)

120

120

120

120 120

120 120

120

120

120

120

120

120

Constant Voltage Versions - Product Specifications

Output Voltage

(Vdc ±5%)

28

34

343

Ordering Options:

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.

PLEDDC120W-038	38	788-3150	
PLEDDC120W-043	43	700-2800	
PLEDDC120W-049	49	613-2450	
PLEDDC120W-057	57	525-2100	
PLEDDC120W-068	68	438-1750	
PLEDDC120W-086	86	350-1400	
PLEDDC120W-114	114	263-1050	
PLEDDC120W-171	171	175-700	
PLEDDC120W-266	266	113-450	

Model Number

PLEDDC120W-024

PLEDDC120W-028

PLEDDC120W-034

PLEDDC120W-343



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 10-12-16

Typical Efficiency

89%

89%

89%

90%

90% 90%

90%

91%

91%

91%

91%

92%

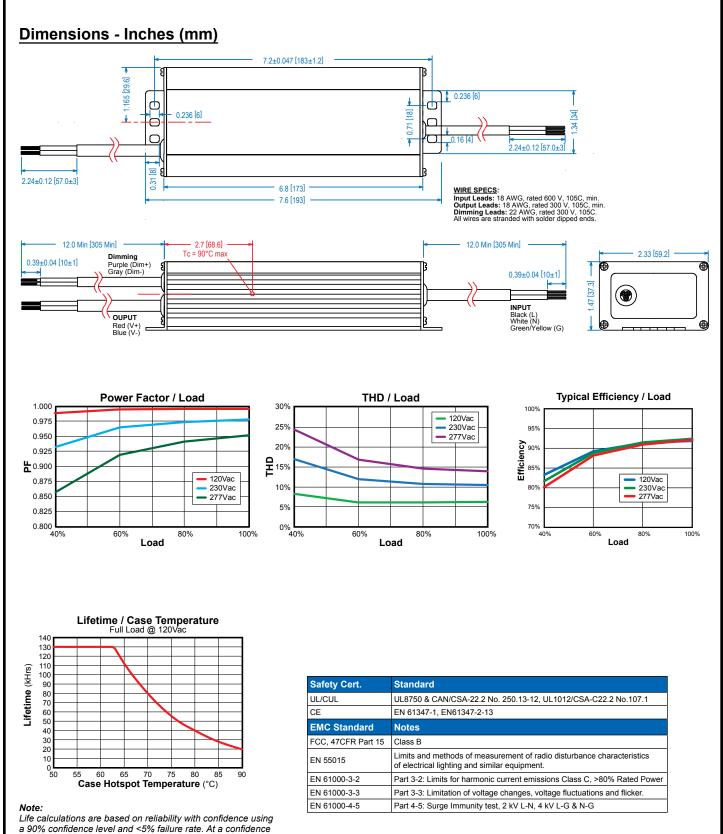
92%

PLEDDC120W Series









UL Conditions of Acceptability

See website for additional information

level of 90% it is expected that <5% of the parts will fail at

outside specification, rather than fail to operate)

the rated life provided. (Failure is defined as a driver drifting

PLEDDC120W Series



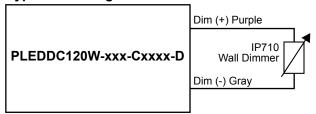
Pg 3 of 4



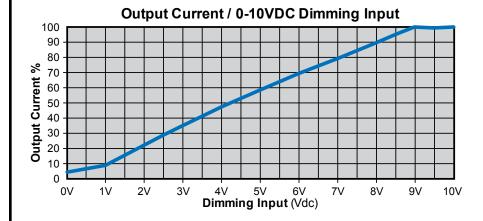
"-D" Option: 0-10VDC and Resistance Dimming

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)



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.