PLED200W Series– Fixed Output & Dimmable

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)**
Input Over-Voltage:	**Can endure 320Vac for 48 Hrs, 350Vac for 2 Hrs**
Frequency:	**50/60 Hz Nom. (47-63 Hz Min/Max)**
Power Factor:	**>0.90 @ > 70% load, 120-277V**
Inrush Current:	**<60.0 Amps max @ 277Vac, cold start, full load**
Input Current:	**0.96 Amps max @ 230Vac, 1.82 A max @ 120Vac**
Maximum Power:	**200W**
Current Accuracy:	**± 3% Over input line variation**
Load Regulation:	**± 4%**
THD:	**≤ 20% @ > 70% load, 120-277V**
Ripple & Noise: (Vpk-pk)	**5% Vo max @ 20 MHz BW, Full load output in parallel with 0.1 µF ceramic & 10 µF Electrolytic**
Ripple: (Ipk-pk)	**5% Io max @ 20 MHz BW, Full load output in parallel with 0.1 µF ceramic & 10 µFElectrolytic. 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**
Protection:	**Over-Voltage, Over-Current, and Short Circuit (auto-recovery)**

Environmental Specifications

Minimum Starting Temp:	**-30ºC**
Maximum Case Temp.	**90°C**
UL Type TL Rating:	**Non-Class 2: 90/84°C**
Storage Temperature:	**-40ºC to +85ºC**
Humidity:	**5% to 95%**
Cooling:	**Convection**
Vibration Frequency:	**5 to 55 Hz/2g, 30 minutes**
Sound Rating:	**Class A**
MTBF:	**280,000 Hours at full load and 40ºC ambient conditions per MIL-217F Notice 2**
EMC:	**FCC 47CFR Part 15 Class B compliant**
Impact Resistance:	**1g/s**
Weight:	**33.2 oz (940 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.

-D3: 3-wire dimmable models dim 100-10%. Three extra wires on the output side (Yellow/Purple/Gray). Compatible with potentiometer dimming. See page 3.

c UL us CE
E332160

IP66 TYPE TL

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.

- Total Power: 200 Watts
- Input Voltage: 100-277 Vac Nom.
- UL Dry & Damp Location Rated
- IP66 & NEMA6
- UL Type HL Rated for Hazardous Locations
- UL Sign Components Manual (S.A.M. Models)

Constant Current Versions - Product Specifications

Model Number	Output Current *(mA ±5%)*	Output Voltage Range *(Vdc)*	Max Output Power *(W)*	Typical Efficiency
PLED200W-445-C0450-XX	450	149-445	200W	92%
PLED200W-285-C0700-XX	700	95-285	200W	92%
PLED200W-190-C1050-XX	1050	64-190	200W	91%
PLED200W-142-C1400-XX	1400	48-142	200W	91%
PLED200W-114-C1750-XX	1750	38-114	200W	91%
PLED200W-095-C2100-XX	2100	32-95	200W	91%
PLED200W-081-C2450-XX	2450	27-81	200W	90%
PLED200W-071-C2800-XX	2800	24-71	200W	90%
PLED200W-063-C3150-XX	3150	21-63	200W	90%
PLED200W-057-C3500-XX	3500	19-57	200W	90%
PLED200W-047-C4200-XX	4200	16-47	200W	89%
PLED200W-040-C4900-XX	4900	14-40	200W	89%
PLED200W-035-C5600-XX	5600	12-35	200W	89%
PLED200W-032-C6300-XX	6300	11-32	200W	88%
PLED200W-024-C8330-XX	8330	8-24	200W	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
PLED200W-024 •	24	2083-8330	200W	88%
PLED200W-032	32	1575-6300	200W	88%
PLED200W-035	35	1400-5600	200W	89%
PLED200W-040	40	1225-4900	200W	89%
PLED200W-047	47	1050-4200	200W	89%
PLED200W-057	57	875-3500	200W	90%
PLED200W-063	63	788-3150	200W	90%
PLED200W-071	71	700-2800	200W	90%
PLED200W-081	81	613-2450	200W	90%
PLED200W-095	95	525-2100	200W	91%
PLED200W-114	114	438-1750	200W	91%
PLED200W-142	142	350-1400	200W	91%
PLED200W-190	190	163-1050	200W	91%
PLED200W-285	285	175-700	200W	92%
PLED200W-445	445	113-450	200W	92%

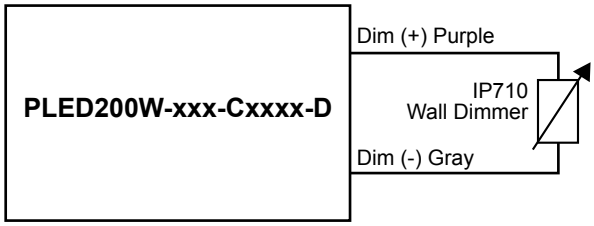
• Indicates S.A.M.

Rev 10-12-16

"-D" and "-D3" Options: 0-10VDC and Resistance Dimming

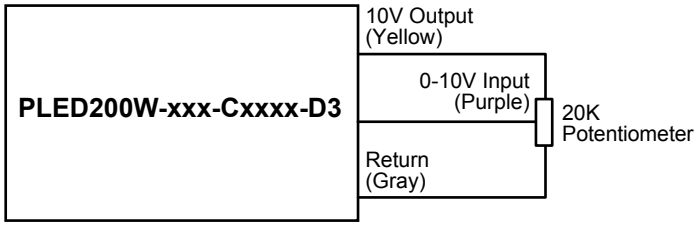
Parameters	Minimum	Typical	Maximum
10V Output, Yellow Wire	9.2V	10.0V	10.8V
Source Current out of Aux Yellow Wire	—-	—-	10mA
Absolute Voltage Range on 0-10V (+) Purple Wire	-2.0V	—	+15V
Source Current out of 0-10V Purple Wire	0mA	—	2mA

Typical Dimming Circuit

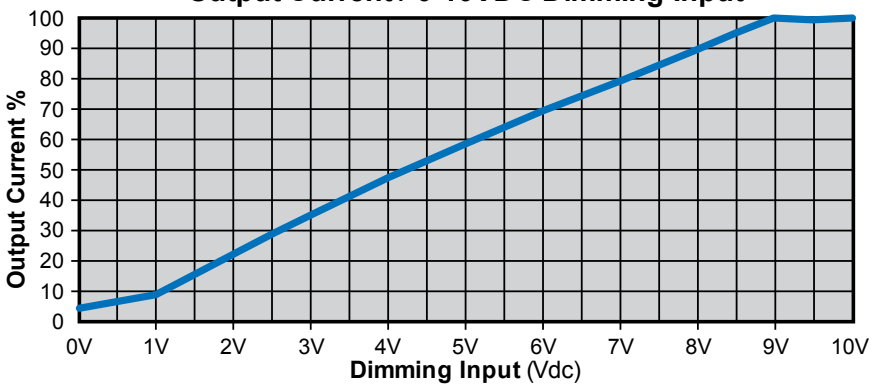


(Dimmer must be current-sink type control)

3-Wire Dimming Typical Circuit



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 Iout <10% @ Vdim <1.0V
4. 0-10V dimmable version output will be 100% with Purple/Gray open and minimum with Purple/Gray Shorted.