



PLED-96W-HV Series

High Voltage Input
Flicker-free, Hazardous Location LED Drivers

Rev 07-19-2017



Electrical Specifications

Input Voltage Range:	277-480 Vac Nom. (XX-512 V Min/Max)
Frequency:	50/60 Hz Nom. (47-63 Hz Min/Max)
Power Factor:	>0.90 @ 60% load 277V-347V, 80% load 480V
Inrush Current:	<30.0 Amps max @ 277 Vac, cold start 25°C
Input Current:	0.45 Amps max
Maximum Power:	96W
Current Regulation:	± 3% Over input line variation
Load Regulation:	± 4%
THD:	≤ 20% @ 60% load, 277V through 480V
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 µF Electrolytic. 120 Hz component (Flicker Free)
Start-up Time:	200ms typical @ Full Load, 120Vac/60Hz (1000ms max)
Leakage Current:	700µA typical
Hold Up Time:	Half Cycle

Protections

Over-voltage	Over-Voltage, Over-Current
Short Circuit	Auto Recovery

Environmental Specifications

Maximum Case Temp.	90°C
Minimum Starting Temp:	-30°C
UL Type TL Rating:	Class 2: 90/66°C; Non-Class 2: 90/66°C
Storage Temperature:	-40°C to +85°C
Humidity:	5% to 95%
Cooling:	Convection
Vibration Frequency:	5 to 55 Hz/2g, 30 minutes
Sound Rating:	Class A
Impact Resistance:	1g/s
MTBF:	474,000 Hours @ full load and 40°C ambient conditions per MIL-217F Notice 2
EMC:	FCC 47CFR Part 15 Class B compliant
Weight:	32.1 oz. (910 grams)

- Total Power: 96 Watts
- Input Voltage: 277-480 Vac Nom.
- UL Dry & Damp Location Rated
- IP66 & NEMA6
- High Power Factor
- UL Type HL Rated for Hazardous Locations

Safety Cert.	Standard
UL/CUL	UL8750 Type HL, CSA-C22.2
CE	EN 61347

EMC Standard	Notes
FCC, 47CFR Part 15	Class B
EN 61000-3-2	
EN 61000-3-3	Class C
EN 61000-4-5	3kV-6kV 8-20 µsec surge protection

Constant Current Models

Model	Output Current (mA ±5%)	Output Voltage Range (Vdc)	Max. Output Power (W)	Max Efficiency
PLED96W-274-C0350-XX-HV	350	92-274	96	88%
PLED96W-213-C0450-XX-HV	450	71-213	96	88%
PLED96W-137-C0700-XX-HV	700	46-137	96	86%
PLED96W-092-C1050-XX-HV	1050	31-92	96	86%
PLED96W-069-C1400-XX-HV	1400	23-69	96	86%
PLED96W-054-C1750-XX-HV	1750	18-54	96	85%
PLED96W-048-C2000-XX-HV	2000	16-48	96	85%
PLED96W-046-C2100-XX-HV	2100	16-46	96	85%
PLED96W-039-C2450-XX-HV	2450	14-39	96	84%
PLED96W-036-C2660-XX-HV	2660	12-36	96	84%
PLED96W-034-C2800-XX-HV	2800	12-34	96	84%
PLED96W-030-C3150-XX-HV	3150	10-30	96	84%
PLED96W-027-C3500-XX-HV	3500	9-27	96	83%
PLED96W-025-C3840-XX-HV	3840	9-25	96	83%
PLED96W-024-C4000-XX-HV	4000	8-24	96	81%
PLED96W-020-C4800-XX-HV	4800	7-20	96	81%
PLED96W-018-C5350-XX-HV	5350	6-18	96	81%

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

Constant Voltage Models

Model	Output Voltage (Vdc ±5%)	Output Current Range (mA)	Max. Output Power (W)	Max Efficiency
PLED96W-018-HV	18	1338-5350	96	81%
PLED96W-020-HV	20	1200-4800	96	81%
PLED96W-024-HV	24	1000-4000	96	81%
PLED96W-025-HV	25	960-3840	96	83%
PLED96W-027-HV	27	875-3500	96	83%
PLED96W-030-HV	30	788-3150	96	84%
PLED96W-034-HV	34	700-2800	96	84%
PLED96W-036-HV	36	665-2660	96	84%
PLED96W-039-HV	39	613-2450	96	84%
PLED96W-046-HV	46	525-2100	96	85%
PLED96W-048-HV	48	500-2000	96	85%
PLED96W-054-HV	54	438-1750	96	85%
PLED96W-069-HV	69	350-1400	96	86%
PLED96W-092-HV	92	263-1050	96	86%
PLED96W-137-HV	137	175-700	96	86%
PLED96W-213-HV	213	113-450	96	88%
PLED96W-274-HV	274	88-350	96	88%

Class 2: US/Canada

Ordering Options:

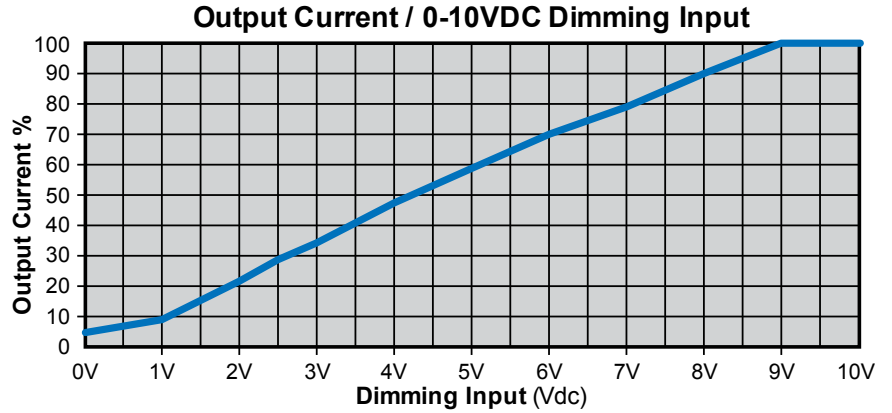
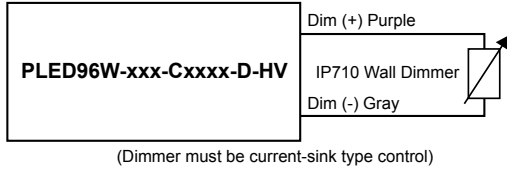
-D: 0-10V & Resistance dimmable models dim 100-10%. Two extra wires on the output side (+Purple/-Gray). Compatible with most quality 0-10V wall dimmers. See page 3.



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

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

Typical Dimming Circuit



Notes:

- 0-10V dimmable version comes with an extra two wires +Purple/-Gray on the output side.
- Compatible with most 0-10V Wall Slide dimmers and direct 0-10V analog signal. Recommended dimmer is Leviton IP710 or equivalent
- 0-10V dimmable version is not intended to dim below about 5% @ 0V or 10% @ 1.0V
- 0-10V dimmable version output will be 100% with Purple/Gray open and minimum with Purple/Gray Shorted.