

Powerland's 75/80/96W 0-10V Dimming Series

offers constant current/constant voltage drivers with wide-range dimmable output current and 90~305Vac universal input.

The output power, voltage and current of this series is up to 96W, 114V and 4A, respectively and designed for 0-10V dimming applications.



Applications

- Indoor LED lights
- High bay and low bay lights, LED troffers



Specifications

Model	Max. Output Power	Input Voltage	Output Voltage Range	Max. Output Current	Efficiency	Max. Case Temperature	THD	Power Factor	Dimensions
PLD075-1TAF2A-40	75W	90~305Vac	20~40V	1.8A	90.0%	90°C	<20%	>0.95	213.5x43x30mm
PLD080-1TAF2A-24	80W	90~305Vac	12~24V	3.33A	89.0%	90°C	<20%	>0.95	213.5x43x30mm
PLD080-1TAF2A-40	80W	90~305Vac	20~40V	2.00A	90.0%	90°C	<20%	>0.95	213.5x43x30mm
PLD080-1TAF2A-57	80W	90~305Vac	28~57V	1.40A	91.0%	90°C	<20%	>0.95	213.5x43x30mm
PLD080-1TAF2A-76	80W	90~305Vac	38~76V	1.05A	91.5%	90°C	<20%	>0.95	213.5x43x30mm
PLD080-1TAF2A-114	80W	90~305Vac	57~114V	0.7A	92.0%	90°C	<20%	>0.95	213.5x43x30mm
PLD096-1TAF2A-24	96W	90~305Vac	12~24V	4A	89.0%	90°C	<20%	>0.95	213.5x43x30mm
PLD096-1TAF2A-40	96W	90~305Vac	20~40V	2.4A	90.0%	90°C	<20%	>0.95	213.5x43x30mm

* Based on 25°C ambient temperature, rated input voltage, and full load.

** Refer to the next page for detailed specifications for this series of LED drivers.

Features

- > 50,000 hours lifetime at 75°C Tcase
- > 5 years warranty at 75°C Tcase
- Constant current & constant voltage output
- Compatible with 0-10V dimming
- Universal input voltage: 90~305Vac
- Safety according to UL1310 / UL8750, & EN61347-2-13
- UL Class 2 output
- Surge voltage rating: L-N 4kV, L/N-Earth 4kV
- EMC according to FCC Part 15 Class A
- Lightning, OVP, SCP, OTP & Open Circuit Protection

Electrical Specifications

Model	PLD075-1TAF2A -40	PLD080-1TAF2A -24	PLD080-1TAF2A -40	PLD080-1TAF2A -57	PLD080-1TAF2A -76	PLD080-1TAF2A -114	PLD096-1TAF2A -24	PLD096-1TAF2A -40	
Output Voltage	20~40V	12~24V	20~40V	28~57V	38~76V	57~114V	12~24V	20~40V	
Output Current	1.8A	3.33A	2.00A	1.40A	1.05A	0.7A	4A	2.4A	
Dimming	A Version: 0-10V Dimming								
Output Power	75W	80W	80W	80W	80W	80W	96W	96W	
Max. Current Ripple	200mA	350mA	200mA	150mA	120mA	100mA	400mA	240mA	
Max. Voltage Ripple	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
Voltage Range	90~305Vac	90~305Vac	90~305Vac	90~305Vac	90~305Vac	90~305Vac	90~305Vac	90~305Vac	
Frequency Range	47~63Hz	47~63Hz	47~63Hz	47~63Hz	47~63Hz	47~63Hz	47~63Hz	47~63Hz	
Max. Input Current	1.0A	1.1A	1.1A	1.1A	1.1A	1.1A	1.3A	1.3A	
Max. Input Power	85.5W	95W	95W	95W	95W	95W	113W	113W	
Power Factor	>0.95 @ 115Vac & 80~100% full load, >0.90 @ 277Vac & 80~100% full load								
Efficiency	90.0%	89.0%	90.0%	91.0%	91.5%	92.0%	89.0%	90.0%	
Max. Open Circuit Voltage	43V	35V	50V	65V	85V	125V	26V	43V	
Ingress Protection	IP54							IP64	
THD	<20% @ 120Vac/230Vac/277Vac & 80~100% full load								
Protections	OVP, OCP, SCP, OTP & Open Circuit Protection								
Environmental Protection	UL Dry & Damp, and Type TL								
Working Temperature	-20~+60°C								
Max. Case Temperature	90°C								
Surge Protection	L-N 4kV, L/N-Earth 4kV								
ANSI Surge Type	1.2/50µs Combination Wave (w/t 2Ω)								
Agency Approbations	UL1310 Class 2 & EN61347-2-13			UL8750 & EN61347-2-13			UL1310 Class 2 & EN61347-2-13		
Electromagnetic Compliance	Per Title 47 CFR Part 15 Class A								
Isolation	Primary to Secondary: 3750Vac / 10mAMax / 60seconds								
Dimension	213.5x43x30mm								
Mounting Length	228mm								
Overall Length	242mm								
Weight	0.5kg						0.65kg		
Life Time	>50,000 hours @ full load, 75°C Tcase								

* Unless otherwise noted, the data are based on 25°C ambient temperature, 230Vac input voltage, and full load.