

## Powerland's 42/50W 0-10V Dimming and Current

**DIP Settable Series** offers constant current LED drivers with wide-range dimmable output current and 90~305/108~305Vac universal input.

The output current of this series is settable with a built-in DIP switch for four-level driving current range, and designed for 0-10V dimming applications.

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# **Applications**

- Indoor LED lights
- LED lights with flexible current settings
- Downlights, spotlights, LED troffers

### **Specifications**

Model	Max. Output Power	Input Voltage	Output Voltage Range	Max. Output Current	Efficiency	Max. Case Temperature	THD	Power Factor	Dimensions
PLD042-1SCF55AS-900	42W	90~305Vac	27~55V	900mA	89.0%	90°C	<20%	>0.95	95x70x32mm
PLD050-1SCF55AS-2100	50W	90~305Vac	16~40V	2100mA	87.0%	90°C	<20%	>0.95	95x70x32mm
PLD050-1SCF55AS-1200	50W	108~305Vac	25~40V	1200mA	88.0%	90°C	<20%	>0.95	95x70x32mm

<sup>\*</sup> Based on 25°C ambient temperature, rated input voltage, and full load.

### **Features**

- 100,000 hours lifetime at 65°C Tcase
- 5 years warranty at 50°C Tcase
- Constant current output
- Compatible with 0-10V dimming
- Output current settable with DIP switches

- Universal input voltage: 90~305/108~305Vac
- Safety according to UL8750 & EN61347-2-13
- EMC according to FCC Part 15 Class B
- Lightning, OVP, SCP, OTP & Open Circuit Protection

<sup>\*\*</sup> Refer to the next page for detailed specifications for this series of LED drivers.



# **Electrical Specifications**

Model	PLD042-1SCF55AS-900	PLD050-1SCF55AS-2100	PLD050-1SCF55AS-1200				
Dimming	0-10V Dimming	0-10V Dimming	0-10V Dimming				
Output Power	42W	50W	50W				
Current Setting DIP Switches	Yes	Yes	Yes				
Output Current Setting & Voltage Range	900mA: 27~46V 800mA: 27~50V 700mA: 27~55V 600mA: 27~55V	2100mA: 16~24V 1750mA: 16~28V 1400mA: 18~36V 1050mA: 18~40V	1200mA: 25~40V 1000mA: 25~40V 800mA: 25~40V 600mA: 25~40V				
Max. Current Ripple	±30%	±30%	±30%				
Voltage Range	90~305Vac	90~305Vac	108~305Vac				
Frequency Range	47~63Hz	47~63Hz	47~63Hz				
Max. Input Current	0.6A	0.75A	0.55A				
Max. Input Power	50W	60W	59W				
Power Factor	>0.95 @ 115Vac & 80~100% load, >0.90 @ 277Vac & 80~100% load						
Efficiency	89.0%	87.0%	88.0%				
Max. Open Circuit Voltage	70V	70V	70V				
Ingress Protection	IP64						
ГНD	<20% @ 120Vac & 80~100% load						
Protections	OVP, OCP, SCP, OTP & Open Circuit Protection						
Environmental Protection	UL Dry & Damp						
Norking Temperature	-20~+60°C						
Max. Case Temperature	90°C						
Surge Protection		1kV					
ANSI Surge Type	1.2/50μs Combination Wave (w/t 2Ω)						
Agency Approbations	UL8750 & EN61347-2-13						
Electromagnetic Compliance	Per Title 47 CFR Part 15 Class B						
Isolation	Primar	Primary to Secondary: 3750Vac / 10mAMax / 60seconds					
Dimension		95x70x32mm					
Mounting Length		85mm					
Overall Length		95mm					
Weight	0.27kg	0.34kg	0.34kg				
Life Time	100,000 hours @ full load, 65°C Tcase						

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