

Powerland's 42/50W "Pickle 2020" Series LED drivers offer flicker-free, programmable and wide-range dimmable output current LED Driver with less than 5% current ripple at 108~305Vac universal input.

The output currents of this series are adjustable at 600-1400mA which is programmed through dimming wires, and designed for isolated 0(0.5)-10V/PWM/Rest dimming applications, complying with UL8750 2th edition. It also offers optional 12V auxiliary power which is isolated from main output.



Applications

- Indoor LED lights
- LED lights with flexible current settings
- Downlights, high bay and low bay lights, spot lights, LED troffers

Specifications

Model	Max. Output Power	Input Voltage	Output Voltage Range	Max. Output Current	Efficiency	Max. Case Temperature	THD	Power Factor	Dimensions
PLD042-1SCF793-1250	42W	108~305Vac	27~45V	1250mA	87.0%	90°C	<20%	>0.9	160x30x26mm
PLD050-1SCF793-1400	50W	108~305Vac	27~45V	1400mA	87.5%	90°C	<20%	>0.9	

* 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

- Flicker-free with < 5% current ripple
- > 50,000 hours lifetime at 75°C Tcase
- > 5 years warranty at 75°C Tcase
- Constant current output
- Output current programmable
- Compatible with 0(0.5)-10V, PWM, external resistor
- Universal input voltage: 108~305Vac
- Safety according to UL8750 & UL1310 & EN61347-2-13
- UL Class 2 output
- EMC according to FCC Part 15 Class A
- Lightning, OVP, SCP, OTP & Open Circuit Protection
- Isolated 12V/100mA auxiliary power output



Electrical Specifications

Model	PLD042-1SCF793-1250	PLD050-1SCF793-1400
Output Voltage	27~45V	27~45V
Current Programmable	Yes	Yes
Output Current Programmable Range	600~1250mA	700~1400mA
Dimming	0(0.5)~10V, PWM, External Resistor	0(0.5)~10V, PWM, External Resistor
Output Power	42W	50W
Max. Current Ripple	± 5%	± 5%
Input Voltage Range	108~305Vac	108~305Vac
Frequency Range	47~63Hz	47~63Hz
Max. Input Current	0.6A@ 25°C 120Vac input & full load 0.3A@ 25°C 230Vac input & full load 0.27A@ 25°C 277Vac input & full load	0.6A@ 25°C 120Vac input & full load 0.3A@ 25°C 230Vac input & full load 0.27A@ 25°C 277Vac input & full load
Max. Input Power	52W	62W
Power Factor	>0.96 @ 120Vac & 80~100% full load >0.94 @ 230Vac & 80~100% full load >0.92 @ 277Vac & 80~100% full load	>0.96 @ 120Vac & 80~100% full load >0.94 @ 230Vac & 80~100% full load >0.92 @ 277Vac & 80~100% full load
Efficiency	87.0%	87.5%
Max. Open Circuit Voltage	59.5V	59.5V
THD	<20% @ 25°C 120Vac/230Vac/277Vac & 80~100% full load	
Protections	OVP, OCP, SCP, OTP & Open Circuit Protection	
Environmental Protection	UL Dry & Damp	
Working Temperature	-20~+50°C	
Max. Case Temperature	90°C	
Ingress Protection	IP20	IP65
Surge Protection	Line to Line 1kV	
ANSI Surge Type	1.2/50µs Combination Wave (w/t 2Ω)	
Agency Approbations	UL8750 & UL1310 Class 2 & EN61347-2-13	
Electromagnetic Compliance	FCC Part 15 Class A	
Isolation	Primary to Secondary: 3750Vac / 10mAMax / 60seconds	
Case & Terminal Type	Metal & Wire	
Dimension	160x30x26mm	
Mounting Length	160mm	
Overall Length	168mm	
Weight	0.22kg	
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.

