

**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 2<sup>th</sup> 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 / 10mA <sub>Max</sub> / 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 T <sub>case</sub>	

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