

Powerland's 42/50W "Pickle-Blue" Wireless

Series LED drivers offer flicker-free, programmable and widerange 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 600-1250mA which is programmed through Bluetooth (BLT SIG5.0), and designed for wireless programmable and dimming applications.







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
PLD042-1SCF892PB-XXX	42W	108~305Vac	27~45V	1250mA	87.0%	90°C	<20%	>0.9	160x30x26mm
PLD050-1SCF892PB-XXX	50W	108~305Vac	27~45V	1400mA	87.5%	90°C	<20%	>0.9	100x30x2011111

^{*} XXX stands for output current, e.g. 1250 stands for 1250mA. XXX=600~1250.

Features

- Flicker-free with < 5% current ripple
- > 50,000 hours lifetime at 75°C Tcase
- > 5 years warranty at 40°C Tcase
- Constant current output
- Wireless programmable and dimming

- MESH Bluetooth/BLT SIG5.0
- 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

^{**} 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.



Electrical Specifications

Model PL0042-ISCF882PB-XXX PL0050-ISCF882PB-XXX Current Programmable Bluebooth Wireless Bluebooth Wireless Output Current Programmable Range 600-1250mA 700-1400mA Dimming Mest Wireless Dimming Mest Wireless Dimming Output Power 42W 50W Max. Current Ripple ±5% ±5% Input Voltage Range 108-305Vac 108-305Vac Frequency Range 47-634z 47-634z Max. Input Current 0.548/250 115Vac input & full load 0.044/250 215Vac put & full load 0.044/250 215Vac put & full load 0.044/250 215Vac put & full load 0.044/250 215Vac & 80-100% full load 0.044/250 215Vac & 80-100% full load 0.044/250 2000xac put & full load 0.044/250 200xac put & full load 0.045/250 200xac put full load 0.045/250 200x							
Current Programmable Bluetooth Wireless Bluetooth Wireless Output Current Programmable Range 600-1250mA 700-1400mA Dimming Mesh Wireless Dimming Mesh Wireless Dimming 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 0.55@ 25C 115Vac Input & full load 0.56@ 25C 115Vac Input & full load Max. Input Dever 52W 62W 52W 52W 52W 80 @ 23Vac & 80-100% full load 9.36@ 215Vac & 80-100% full load 9.96@ 23Vac & 80-100% full load 9.36@ 215Vac & 80-100% full load 9.95@ 23Vac & 80-100% full load 9.95@ 23Vac & 80-100% full load 9.95@ 23Vac & 80-100% full load 9.95@ 23Vac & 80-100% full load 9.95@ 23Vac & 80-100% full load 9.95@ 23Vac & 80-100% full load 9.95@ 23Vac & 80-100% full load 9.95@ 23Vac & 80-100% full load Processor 9.95V 59.5V Ingress Protection IP20 IP20 Ingress Pro	Model	PLD042-1SCF892PB-XXX	PLD050-1SCF892PB-XXX				
Dutput Current Programmable Range	Output Voltage	27~45V	27~45V				
Dimming	Current Programmable	Bluetooth Wireless	Bluetooth Wireless				
Output Power 42W 50W Max. Current Ripple ±5% ±5% Input Voltage Range 106-305/vac 108-305/vac Frequency Range 47-63Hz 47-63Hz Max. Input Current 0.5A@ 25°C 15/Vac input & full load 0.6A@ 25°C 15/Vac input & full load Max. Input Power 52W 62W Power Factor >0.98 @ 115/Vac & 80-100% full load >0.93 @ 115/Vac & 20-100% full load Power Factor >0.98 @ 2019/vac & 80-100% full load >0.93 @ 215/Vac & 20-100% full load Power Factor >0.98 @ 2019/vac & 80-100% full load >0.98 @ 2019/vac & 80-100% full load Power Factor 9.99 @ 2019/vac & 80-100% full load >0.92 @ 277/vac & 80-100% full load Probe Circuit Voltage 9.9V 87.5% Max. Open Circuit Voltage 9.9V 59.5V Ingress Protection IP20 IP65 Ingress Protection U. Dry & Damp Working Temperature 90°C Surge Protection Line to Line 1kV Anxil Surge Type 1.250µs Combination Wave (wit 20) Agency Approbations U. Bry Soundary: 3750/vac / 10mAMax /	Output Current Programmable Range	600~1250mA	700~1400mA				
Max. Current Ripple	Dimming	Mesh Wireless Dimming	Mesh Wireless Dimming				
Input Voltage Range	Output Power	42W	50W				
Frequency Range	Max. Current Ripple	±5%	±5%				
Max. Input Current 0.5A@ 25°C 115Vac input & full load 0.5A@ 25°C 230Vac input & full load 0.4A@ 25°C 230Vac input & full load 0.99 @ 115Vac & 80~100% full load 0.99 @ 230Vac & 80~100% full load 0.99 @ 230Vac & 80~100% full load 0.99 @ 207Vac & 80~100% full load 0.90 @ 207Vac & 80~100% full load 0.99 @ 207Vac & 80~100% fu	Input Voltage Range	108~305Vac	108~305Vac				
Max. Input Cutrent 0.3A@ 25°C 230Vac input & full load 0.4A@ 25°C 230Vac input & full load 0.4A@ 25°C 230Vac input & full load 52W 62W	Frequency Range	47~63Hz	47~63Hz				
Note	Max. Input Current	0.5A@ 25°C 115Vac input & full load 0.3A@ 25°C 230Vac input & full load	0.6A@ 25°C 115Vac input & full load 0.4A@ 25°C 230Vac input & full load				
Power Factor	Max. Input Power	52W	62W				
Max. Open Circuit Voltage 59.5V 59.5V Ingress Protection IP20 IP65 THD <20% @ 120-277Vac & 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 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 0.26kg	Power Factor	>0.95 @ 230Vac & 80~100% full load	>0.95 @ 230Vac & 80~100% full load				
Ingress Protection IP20 IP65	Efficiency	87.0%	87.5%				
THD <20% @ 120-277Vac & 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 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 0.26kg	Max. Open Circuit Voltage	59.5V	59.5V				
Protections OVP, OCP, SCP, OTP & Open Circuit Protection Environmental Protection UL Dry & Damp Working Temperature -20-+50°C Max. Case Temperature 90°C 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 0.26kg	Ingress Protection	IP20	IP65				
Environmental Protection UL Dry & Damp Working Temperature -20~+50°C Max. Case Temperature 90°C 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 0.26kg	THD	<20% @ 120~277Va	c & 80~100% full load				
Working Temperature -20~+50°C Max. Case Temperature 90°C 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 0.26kg	Protections	OVP, OCP, SCP, OTP & Open Circuit Protection					
Max. Case Temperature 90°C 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 168mm Weight 0.26kg	Environmental Protection	UL Dry & Damp					
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 0.26kg	Working Temperature	-20~+50°C					
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 168mm Weight 0.26kg	Max. Case Temperature	90°C					
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 168mm Weight 0.26kg	Surge Protection	Line to Line 1kV					
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 0.26kg	ANSI Surge Type	1.2/50µs Combina					
Isolation Primary to Secondary: 3750Vac / 10mAMax / 60seconds Case & Terminal Type Metal & Wire Dimension 160x30x26mm Mounting Length 160mm Overall Length 168mm Weight 0.26kg	Agency Approbations	UL8750 & UL1310 cla	ss 2 & EN61347-2-13				
Case & Terminal Type Metal & Wire Dimension 160x30x26mm Mounting Length 160mm Overall Length 168mm Weight 0.26kg	Electromagnetic Compliance	FCC Part	15 Class A				
Dimension 160x30x26mm Mounting Length 160mm Overall Length 168mm Weight 0.26kg	Isolation	Primary to Secondary: 3750	Vac / 10mAMax / 60seconds				
Mounting Length Overall Length Weight 160mm 168mm 0.26kg	Case & Terminal Type	Metal & Wire					
Overall Length 168mm Weight 0.26kg	Dimension	160x3C	x26mm				
Weight 0.26kg	Mounting Length	160mm					
	Overall Length	168mm					
Life Time >50,000 hours @ full load, 40°C Tcase	Weight	0.26kg					
	Life Time	full load, 40°C Tcase					

^{*} Note: XXX stands for output current, e.g. 1250 stands for 1250mA. XXX in PLD042-1SCF892PB-XXX=600~1050, XXX in PLD050-1SCF892PB-XXX = 700~1250.

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