

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.

CB

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	100x30x20mm

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

** 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 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



Electrical Specifications

Lurrent Programmable Bluetooth Wireless Dutput Current Programmable Range 600-1250mA 700-1400mA Dimming Mesh Wireless Dimming Mesh Wireless Dimming Datput Power 42W 50W Sate Current Ripple ±5% ±5% mput Voltage Range 108-305/vac 108-305/vac requency Range 47-63Hz 64-63 29C 115/vac input & full Ioad 0.54@ 29C 1250/vac input & full Ioad 0.64@ 29C 1250/vac input & full Ioad 0.64@ 29C 230/vac input & full Ioad 0.54@ 29C 1200/vac input & full Ioad 0.64@ 29C 230/vac input & full Ioad 0.98@ 1150/vac & 80-100% full Ioad 0.50@ 2070/vac & 80-100% full Ioad >0.98@ 2150/vac & 80-100% full Ioad >0.98@ 230/vac & 80-100% full Ioad 0.50@ 2070/vac & 80-100% full Ioad >0.98@ 2150/vac & 80-100% full Ioad >0.98@ 230/vac & 80-100% full Ioad 0.50@ 2070/vac & 80-100% full Ioad >0.98@ 2150/vac & 80-100% full Ioad >0.98@ 2150/vac & 80-100% full Ioad 10f carbot 87.0% 87.5% 87.5% Max. Copen Circuit Voltage 69.55/ S9.5/ 199.5 Filternery 87.5% 80-100% full Ioad >0.98@ 250/vac & 80-100% ful	Model	PLD042-1SCF892PB-XXX	PLD050-1SCF892PB-XXX				
Dutyut Current Programmable Range 600-1250mA T00-1400mA Dimming Mesh Wireless Dimming Mesh Wireless Dimming Dutyut Power 42W 50W Aus. Current Ripple 1.5% 1.5% mput Voltage Range 108-305Vac 108-305Vac requency Range 47-63Hz 47-63Hz Atas. Input Current 0.5A@ 25°C 31Vac input & full load 0.6A@ 25°C 30Vac input & full load 0.5A@ 25°C 31Vac input & full load 0.6A@ 25°C 30Vac input & full load >0.6B@ 25°C 115Vac input & full load Abas. Input Power 52W 62W 62W Source Factor >0.9B @ 115Vac & 80-100% full load >0.9G @ 21Vac & 80-100% full load >0.9S @ 20V7Wac & 80-100% full load >0.9S @ 21Vac & 80-100% full load >0.9S @ 21Vac & 80-100% full load Source Factor >0.9S @ 20V7Wac & 80-100% full load >0.9S @ 20VAC >0.9S @ 20VAC Settions IP20 IP65 >1VAC Ingress Protection IP00 >20% @ 120-277Vac & 80-100% full load >0.9S @ 20VAC Surviconmental Protection IP05 IP05 IP05 Survicon function	Output Voltage	27~45V	27~45V				
Jumining Mesh Wireless Dimming Mesh Wireless Dimming Dutput Power 42W 50W Ats. Current Ripple ±5% ±5% nput Voltage Range 108-305Vac 108-305Vac requency Range 47-63Hz 47-63Hz Ats. Input Current 0.5AQ 25°C 31Vac input & tull load 0.6AQ 25°C 115Vac input & tull load Ats. Input Current 0.5AQ 25°C 31Vac input & tull load 0.6AQ 25°C 115Vac input & tull load Ats. Input Power 52W 62W 62W Youre Factor >0.90 8G 215Vac 8 00-100% full load >0.90 8G 215Vac 8 00-100% full load Youre Factor >0.90 50 5G 23Vac 800-100% full load >0.90 8G 215Vac 8 00-100% full load Youre Factor >0.90 8G 215Vac 8 00-100% full load >0.90 8G 215Vac 8 00-100% full load Youre Factor \$0.95 00 SV 59.5V 115Vac 8 00-100% full load Youre Factor \$0.95 00 SV 59.5V 1108-3 Protection IP20 IP65 1100 Kas. Open Circuit Voltage 0VP, OCP, SCP, OTP & Open Circuit Protection 1100 Kas. Case Temperature -2050°C 20	Current Programmable	Bluetooth Wireless	Bluetooth Wireless				
Jupu Power 42W 5W Max. Current Ripple ±5% ±5% nput Voltage Range 108-305Vac 108-305Vac requency Range 47-63Hz 47-63Hz Max. Input Current 0.5A@ 25°C 115Vac input & full load 0.6A@ 25°C 230Vac input & full load Max. Input Power 52W 62W >0.98@ 215Vac & 80-100% full load >0.96 @ 115Vac & 80-100% full load >0.98@ 215Vac & 80-100% full load >0.95 @ 230Vac & 80-100% full load >0.98@ 215Vac & 80-100% full load >0.95 @ 230Vac & 80-100% full load >0.98@ 215Vac & 80-100% full load >0.95 @ 230Vac & 80-100% full load >0.98@ 215Vac & 80-100% full load >0.95 @ 230Vac & 80-100% full load >0.98@ 215Vac & 80-100% full load >0.95 @ 237Vac & 80-100% full load >0.98@ 215Vac & 80-100% full load >0.95 @ 237Vac & 80-100% full load >0.98@ 215Vac & 80-100% full load >0.95 @ 237Vac & 80-100% full load Starter 87.5% 87.5% Max. Open Circuit Voltage 99.5V 59.5V Starter 0VP, OCP, SCP, OTP & Open Circuit Protection 1080 Stare Temperature 2069°C 20-450	Output Current Programmable Range	600~1250mA	700~1400mA				
As. Current Ripple ±5% get Voltage Range 108-305Vac 108-305Vac requency Range 47-63Hz 47-63Hz As. Input Current 0.5A@ 29°C 115Vac input & full load 0.4A@ 25°C 230Vac input & full load As. Input Current 0.5A@ 29°C 115Vac input & full load 0.4A@ 25°C 230Vac input & full load As. Input Current 0.5A@ 29°C 115Vac & 80-100% full load >0.4A@ 25°C 230Vac input & full load As. Input Power 52W 62W Power Factor >0.98 @ 115Vac & 80-100% full load >0.95 @ 230Vac & 80-100% full load >0.95 @ 237Vac & 80-100% full load >0.95 @ 237Vac & 80-100% full load >0.95 @ 237Vac & 80-100% full load >0.95 @ 237Vac & 80-100% full load >0.95 @ 237Vac & 80-100% full load >0.95 @ 237Vac & 80-100% full load >0.95 @ 237Vac & 80-100% full load >0.95 @ 237Vac & 80-100% full load >0.95 @ 237Vac & 80-100% full load Fiftiency \$87.5% \$87.5% \$87.5% Max. Open Circuit Voltage \$9.5V \$9.5V Ingress Protection UL DY & Damp \$87.5% Norking Temperature .20~50°C \$90°C Surge Protection UL B750	Dimming	Mesh Wireless Dimming	Mesh Wireless Dimming				
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Arrow of ange 47-63Hz 47-63Hz Frequency Range 0.5A@ 25°C 115Vac input & full load 0.6A@ 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 210Vac input & full load Max. Input Ourrent 0.5A@ 25°C 115Vac input & full load 0.4A@ 25°C 210Vac input & full load >09 66 (15Vac & 80-100% full load >0.98 @ 151Vac & 80-100% full load >0.98 @ 151Vac & 80-100% full load >09 56 (230Vac & 80-100% full load >0.92 @ 277Vac & 80-100% full load >0.92 @ 277Vac & 80-100% full load >09 66 (15Vac & 80-100% full load >0.92 @ 277Vac & 80-100% full load >0.92 @ 277Vac & 80-100% full load >09 67 (15Vac & 80-100% full load >0.92 @ 277Vac & 80-100% full load >0.92 @ 277Vac & 80-100% full load >09 67 (15Vac & 80-100% full load >0.92 @ 277Vac & 80-100% full load >0.92 @ 277Vac & 80-100% full load >09 70 500 (15Vac & 90-100% full load >0.92 @ 277Vac & 80-100% full load >0.92 @ 277Vac & 80-100% full load >00 70 500 (15Vac & 90-100% full load >0.92 @ 277Vac & 80-100% full load >0.92 @ 277Vac & 80-100% full load >00 70 500 (15Vac & 90 full coad 0.92 @ 277Vac & 80-100% full load >0.92 @ 277Vac & 80-100% full load >00 70 500 full coad	Max. Current Ripple	\pm 5%	±5%				
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>0.98 @ 115Vac & 80-100% full load >0.95 @ 230Vac & 80-100% full load >0.92 @ 277Vac & 80-100% full load #ax. Open Circuit Voltage 59.5V 87.5% mgress Protection IP20 IP65 THD <20% @ 120-277Vac & 80-100% full load Protection Protections OVP, OCP, SCP, OTP & Open Circuit Protection IP65 Environmental Protection UL Dry & Damp Interview Norking Temperature 90°C Start Surge Protection UL B70 & UL B100 (with 20) Agency Approbations ULB/S0 & UL1310 dass 2 & EN61347-2-13 Electromagnetic Compliance FCC Part 15 Class A solation Primary to Secondary: 3750Vac / 10mAMax / 60seconds Class A Case & Terminal Type Metal & Wire Dimension Diverall Length 160mm Diverall Length 160mm	Max. Input Current						
>0.95 @ 230Vac & 80-100% full load >0.92 @ 277Vac & 80-100% full load >0.92 @ 277Vac & 80-100% full load >0.92 @ 277Vac & 80-100% full load #max. Open Circuit Voltage 30.5 @ 230Vac & 80-100% full load mgress Protection IP20 IP65 THD <20% @ 120-277Vac & 80-100% full load Protections OVP, OCP, SCP, OTP & Open Circuit Protection Environmental Protection UL Dry & Damp Norking Temperature 90°C Starge Type 1.2150µs Combination Wave (wit 2Ω) Agency Approbations UL 18750 & UL 1310 class 2 & EN61347-2-13 Electromagnetic Compliance FCC Part 15 Class A solation Primary to Secondary: 3750Vac / 10mAMax / 60seconds Case & Terminal Type Metal & Wire Dimension 160mm Overall Length 160mm	Max. Input Power	52W	62W				
Max. Open Circuit Voltage 59.5V 59.5V ngress Protection IP20 IP65 THD <20% @ 120-277Vac & 80~100% full load	Power Factor	>0.95 @ 230Vac & 80~100% full load	>0.95 @ 230Vac & 80~100% full load				
Image Protection IP20 IP65 THD <20% @ 120-277Vac & 80-100% full load	Efficiency	87.0%	87.5%				
THD <20% @ 120-277Vac & 80-100% full load	Max. Open Circuit Voltage	59.5V	59.5V				
Protections OVP, OCP, SCP, OTP & Open Circuit Protection Environmental Protection UL Dry & Damp Norking 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 solation Primary to Secondary: 3750Vac / 10mAMax / 60seconds Case & Terminal Type Metal & Wire Dimension 160x30x26mm Wounting Length 160mm Overall Length 0.26kg	ngress Protection	IP20	IP65				
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Norking 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 solation Primary to Secondary: 3750Vac / 10mAMax / 60seconds Case & Terminal Type Metal & Wire Dimension 160x30x26mm Noutting Length 168mm Neight 0.26kg	Protections	OVP, OCP, SCP, OTP & Open Circuit Protection					
Wax. Case Temperature 90°C Surge Protection Line to Line 1 kV 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 solation Primary to Secondary: 3750Vac / 10mAMax / 60seconds Case & Terminal Type Metal & Wire Dimension 160x30x26mm Mounting Length 168mm Neight 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 solation Primary to Secondary: 3750Vac / 10mAMax / 60seconds Case & Terminal Type Metal & Wire Dimension 160x30x26mm Vounting Length 168mm Neight 0.26kg	Norking 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 solation Primary to Secondary: 3750Vac / 10mAMax / 60seconds Case & Terminal Type Metal & Wire Dimension 160x30x26mm Voerall Length 160mm Neight 0.26kg	Max. Case Temperature	90°C					
Agency Approbations UL8750 & UL1310 class 2 & EN61347-2-13 Electromagnetic Compliance FCC Part 15 Class A solation Primary to Secondary: 3750Vac / 10mAMax / 60seconds Case & Terminal Type Metal & Wire Dimension 160x30x26mm Wounting Length 160mm Dverall Length 0.26kg	Surge Protection	Line to Line 1kV					
Electromagnetic Compliance FCC Part 15 Class A solation Primary to Secondary: 3750Vac / 10mAMax / 60seconds Case & Terminal Type Metal & Wire Dimension 160x30x26mm Vounting Length 160mm Diverall Length 0.26kg	ANSI Surge Type	1.2/50μs Combination Wave (w/t 2Ω)					
solation Primary to Secondary: 3750Vac / 10mAMax / 60seconds Case & Terminal Type Metal & Wire Dimension 160x30x26mm Mounting Length 160mm Dverall Length 168mm Neight 0.26kg	Agency Approbations	UL8750 & UL1310 class 2 & EN61347-2-13					
Case & Terminal Type Metal & Wire Dimension 160x30x26mm Mounting Length 160mm Dverall Length 168mm Weight 0.26kg	Electromagnetic Compliance	FCC Part 15 Class A					
Dimension 160x30x26mm Mounting Length 160mm Dverall Length 168mm Weight 0.26kg	Isolation	Primary to Secondary: 3750Vac / 10mAMax / 60seconds					
Mounting Length 160mm Overall Length 168mm Neight 0.26kg	Case & Terminal Type	Metal & Wire					
Overall Length 168mm Neight 0.26kg	Dimension	160x30x26mm					
Neight 0.26kg	Mounting Length	160mm					
	Overall Length	168mm					
.ife Time >50,000 hours @ full load, 40°C Tcase	Weight	0.26kg					
	Life Time	>50,000 hours @ 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.