

Powerland's 200W Programmable Series offers digital programmable drivers with wide-range adjustable output current, together with 12V/100mA auxiliary output (optional) for smart lighting.

The output current of this series are programmable, and designed for 0(0.05)-10V/PWM/Rset/Clock/DMX (upon request) ultra-deep dimming applications. Bluetooth and ZigBee dimming are provided in B and E versions, respectively.

Applications

- LED lights with flexible current settings
- Street lights, high bay and low bay lights, LED troffers
- Wireless dimming lights

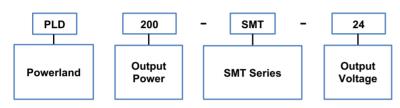


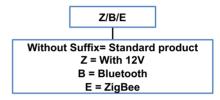






Model Name Definition





Specifications

Model	Max. Output Power	Input Voltage	Output Voltage Range	Max. Output Current	Efficiency	Max. Case Temperature	THD	Power Factor	Dimensions
PLD200-SMT-24(Z/B/E)	200W	90~305Vac	16~24V	10A	92.5%	90°C	<20%	>0.95	230x68x42.5mm
PLD200-SMT-36(Z/B/E)	200W	90~305Vac	24~36V	6.67A	92.5%	90°C	<20%	>0.95	230x68x42.5mm
PLD200-SMT-42(Z/B/E)	200W	90~305Vac	28~42V	5.7A	92.5%	90°C	<20%	>0.95	230x68x42.5mm
PLD200-SMT-48(Z/B/E)	200W	90~305Vac	32~48V	5A	92.5%	90°C	<20%	>0.95	230x68x42.5mm
PLD200-SMT-58(Z/B/E)	200W	90~305Vac	29~58V	3.2A	92.5%	90°C	<20%	>0.95	230x68x42.5mm
PLD200-SMT-95(Z/B/E)	200W	90~305Vac	47~95V	2.52A	93.5%	90°C	<20%	>0.95	230x68x42.5mm
PLD200-SMT-142(Z/B/E)	200W	90~305Vac	71~142V	1.68A	94.0%	90°C	<20%	>0.95	230x68x42.5mm
PLD200-SMT-190(Z/B/E)	200W	90~305Vac	95~190V	1.26A	94.0%	90°C	<20%	>0.95	230x68x42.5mm
PLD200-SMT-285(Z/B/E)	200W	90~305Vac	142~285V	0.84A	94.5%	90°C	<20%	>0.95	230x68x42.5mm
PLDC-CSCA	Powerland LED drivers programmer (accessory)								

^{*} Based on 25°C ambient temperature, rated input voltage, and full load.

Features

- Ultra-deep dimming down to 0.5%, compatible with DMX (upon request)
- 12V/100mA auxiliary output (optional)
- Constant current & constant voltage output
- Output current & output voltage programmable
- Compatible with 0(0.05)-10V, PWM, external resistor, clock, DMX (upon request) dimming
- Support wireless dimming (Bluetooth or ZigBee protocol)

- Universal input voltage: 90~305Vac
- > 70,000 hours lifetime at 75°C Tcase
- > 7 years warranty at 75°C Tcase
- Min. operating temperature @ -40°C
- Safety according to UL8750 & EN61347-2-13
- Surge voltage rating: L-N 5.5kV, L/N-Earth 11kV
- EMC according to FCC Part 15 Class B (Class A with 12V Aux)
- Lightning, OVP, SCP, OTP & Open Circuit Protection



Electrical Specifications

Model	PLD200-SMT -24(Z/B/E)	PLD200-SMT -36(Z/B/E)	PLD200-SMT -42(Z/B/E)	PLD200-SMT -48(Z/B/E)	PLD200-SMT -58(Z/B/E)	PLD200-SMT -95(Z/B/E)	PLD200-SMT -142(Z/B/E)	PLD200-SMT -190(Z/B/E)	PLD200-SMT -285(Z/B/E)		
Output Voltage	16-24V	24~36V	28~42V	32~48V	29-58V	47~95V	71~142V	95~190V	142~285V		
Current Programmable	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Max Output Current	10A	6.67A	5.7A	5A	3.2A	2.52A	1.68A	1.26A	0.84A		
Output AUX Power Voltage (Optional)	12V	12V	12V	12V	12V	12V	12V	12V	12V		
Output AUX Power Current (Optional)	0-100mA	0-100mA	0-100mA	0-100mA	0-100mA	0-100mA	0-100mA	0-100mA	0-100mA		
Dimming	0(0.05V)~10V, PWM, External Resistor, Clock, DMX (upon request)										
Wireless Dimming	B Version: Bluetooth; E Version: ZigBee										
Output Power	200W	200W	200W	200W	200W	200W	200W	200W	200W		
Max. Current Ripple	600mA	530mA	450mA	400mA	350mA	260mA	180mA	150mA	100mA		
Max. Voltage Ripple	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
Voltage Range	90~305Vac	90~305Vac	90~305Vac	90~305Vac	90~305Vac	90~305Vac	90~305Vac	90~305Vac	90~305Vac		
Frequency Range	47~63Hz	47~63Hz	47~63Hz	47~63Hz	47~63Hz	47~63Hz	47~63Hz	47~63Hz	47~63Hz		
Max. Input Current	2.7A	2.7A	2.7A	2.7A	2.7A	2.7A	2.7A	2.7A	2.7A		
Max. Input Power	230W	230W	230W	230W	230W	230W	230W	230W	230W		
Power Factor	>0.97 @ 115Vac & 80~100% full load, >0.90 @ 277Vac & 80~100% full load										
Efficiency	92.5%	92.5%	92.5%	92.5%	92.5%	93.5%	94.0%	94.0%	94.5%		
Max. Open Circuit Voltage	33V	45V	55V	75V	70V	125V	180V	260V	360V		
Ingress Protection	IP67										
THD	<20% @ 100~277Vac & 80~100% full load										
Protections	OVP, OCP, SCP, OTP & Open Circuit Protection										
Environmental Protection	UL Dry & Damp & Wet										
Working Temperature	-40~+70°C										
Max. Case Temperature	90°C										
Surge Protection	L-N 5.5kV, L/N-Earth 11kV										
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, (Class A with 12V AUX output)										
Isolation	Primary to Secondary: 3750Vac / 10mAMax / 60seconds										
Dimension		230x68x42.5mm									
Mounting Length		242mm									
Overall Length		256mm									
Weight		1.45kg									
Life Time		>70,000 hours @ full load, 75°C Tcase									

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