

Powerland's 240W Programmable Series offers digital programmable drivers with wide-range adjustable output current, together with 12V/100mA auxiliary output (optional) for smart lighting.

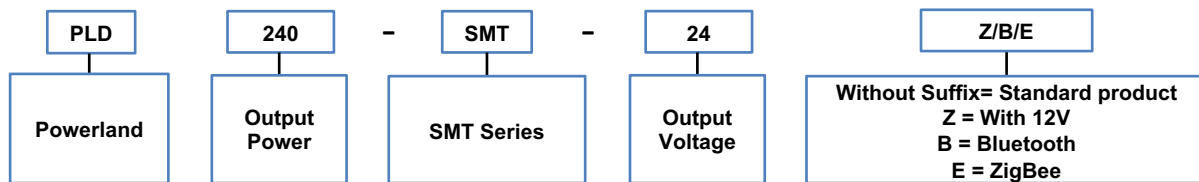
The output current of this series are programmable, and designed for 0(0.05)-10V/PWM/Rset/Clock/DMX (upon request) ultra-deep dimming applications. Bluetooth and ZigBee dimming are provided in B and E versions, respectively.



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
PLD240-SMT-24(Z/B/E)	240W	90~305Vac	16~24V	12A	92.5%	90°C	<20%	>0.95	230x68x42.5mm
PLD240-SMT-36(Z/B/E)	240W	90~305Vac	24~36V	8A	92.5%	90°C	<20%	>0.95	230x68x42.5mm
PLD240-SMT-42(Z/B/E)	240W	90~305Vac	28~42V	6.86A	92.5%	90°C	<20%	>0.95	230x68x42.5mm
PLD240-SMT-48(Z/B/E)	240W	90~305Vac	32~48V	6A	92.5%	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	PLD240-SMT-24(Z/B/E)	PLD240-SMT-36(ZB/E)	PLD240-SMT-42(Z/B/E)	PLD240-SMT-48(Z/B/E)
Output Voltage	16-24V	24~36V	28~42V	32~48V
Current Programmable	Yes	Yes	Yes	Yes
Max Output Current	12A	8A	6.86A	6A
Output AUX Power Voltage (Optional)	12V	12V	12V	12V
Output AUX Power Current (Optional)	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	240W	240W	240W	240W
Max. Current Ripple	±10%lo	±10%lo	±10%lo	±10%lo
Max. Voltage Ripple	±0.5%	±0.5%	±0.5%	±0.5%
Voltage Range	90~305Vac	90~305Vac	90~305Vac	90~305Vac
Frequency Range	47~63Hz	47~63Hz	47~63Hz	47~63Hz
Max. Input Current	3.3A	3.3A	3.3A	3.3A
Max. Input Power	280W	280W	280W	280W
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%
Max. Open Circuit Voltage	33V	45V	55V	75V
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.