

Powerland's 120W Programmable Series offers digital programmable drivers with wide-range adjustable output current, together with 12V/20mA auxiliary output (optional) for smart lighting.

The output current of this series are programmable, and designed for 0(0.5)-10V/PWM/Rset/DMX (upon request) ultra-deep dimming applications. Bluetooth and ZigBee dimming are provided in B and E versions, respectively.



Applications

- Cost-effective outdoor & indoor LED lights
- 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
PLD120-SMR-24(Z/B/E)	120W	90~305Vac	12~30V	5A	89.0%	90°C	<20%	>0.97	227x49x40.5mm
PLD120-SMR-36(Z/B/E)	120W	90~305Vac	23~45V	3.3A	90.0%	90°C	<20%	>0.97	227x49x40.5mm
PLD120-SMR-48(Z/B/E)	120W	90~305Vac	29~58.8V	2.5A	90.0%	90°C	<20%	>0.97	227x49x40.5mm
PLD120-SMR-86(Z/B/E)	120W	90~305Vac	35~86V	1.68A	91.0%	90°C	<20%	>0.97	227x49x40.5mm
PLD120-SMR-114(Z/B/E)	120W	90~305Vac	47~114V	1.26A	91.0%	90°C	<20%	>0.97	227x49x40.5mm
PLD120-SMR-170(Z/B/E)	120W	90~305Vac	72~170V	0.84A	91.0%	90°C	<20%	>0.97	227x49x40.5mm
PLDC-CSCA	Powerland LED drivers programmer (accessory)								

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

Features

- Deep dimming down to 5%
- 12V/20mA auxiliary output (optional)
- Constant current & constant voltage output
- Output current & output voltage programmable
- Compatible with 0(0.5)-10V, PWM, external resistor, 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 4kV, L/N-Earth 4kV
- EMC according to FCC Part 15 Class A
- Lightning, OVP, SCP, OTP & Open Circuit Protection

Electrical Specifications

Model	PLD120-SMR-24(Z/B/E)	PLD120-SMR-36(Z/B/E)	PLD120-SMR-48(Z/B/E)	PLD120-SMR-86(Z/B/E)	PLD120-SMR-114(Z/B/E)	PLD120-SMR-170(Z/B/E)
Output Voltage	12~30V	23~45V	29~58.8V	35~86V	47~114V	72~170V
Current Programmable	Yes	Yes	Yes	Yes	Yes	Yes
Max Output Current	5A	3.3A	2.5A	1.68A	1.26A	0.84A
Output AUX Power Voltage (Optional)	12V	12V	12V	12V	12V	12V
Output AUX Power Current (Optional)	0-20mA	0-20mA	0-20mA	0-20mA	0-20mA	0-20mA
Dimming	0(0.5)~10V, PWM, External Resistor, DMX (upon request)					
Wireless Dimming	B Version: Bluetooth; E Version: ZigBee					
Output Power	120W	120W	120W	120W	120W	120W
Max. Current Ripple	500mA	350mA	250mA	180mA	150mA	100mA
Max. Voltage Ripple	±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
Frequency Range	47~63Hz	47~63Hz	47~63Hz	47~63Hz	47~63Hz	47~63Hz
Max. Input Current	1.6A	1.6A	1.6A	1.6A	1.6A	1.6A
Max. Input Power	140W	140W	140W	140W	140W	140W
Power Factor	>0.97 @ 115Vac & 80~100% full load, >0.90 @ 277Vac & 80~100% full load					
Efficiency	89.0%	90.0%	90.0%	91.0%	91.0%	91.0%
Max. Open Circuit Voltage	50V	63V	73V	100V	148V	200V
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 4kV, L/N-Earth 4kV					
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 A					
Isolation	Primary to Secondary: 3750Vac / 10mA _{Max} / 60seconds					
Dimension	227x49x40.5mm					
Mounting Length	240mm					
Overall Length	253mm					
Weight	0.92kg					
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.

Powerland's 150W Programmable Series offers high-ambient-temperature 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

- Ultra-Hostile-Environmental (UHE) LED lighting
- 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
PLD150-SMT-24(Z/B/E)	150W	90~305Vac	16~24V	7.5A	92.5%	90°C	<20%	>0.95	200x68x42.5mm
PLD150-SMT-36(Z/B/E)	150W	90~305Vac	24~36V	5A	92.5%	90°C	<20%	>0.95	200x68x42.5mm
PLD150-SMT-42(Z/B/E)	150W	90~305Vac	28~42V	4.3A	92.5%	90°C	<20%	>0.95	200x68x42.5mm
PLD150-SMT-48(Z/B/E)	150W	90~305Vac	32~48V	3.75A	92.5%	90°C	<20%	>0.95	200x68x42.5mm
PLD150-SMT-58(Z/B/E)	150W	90~305Vac	29~58V	2.6A	92.5%	90°C	<20%	>0.95	230x68x42.5mm
PLD150-SMT-95(Z/B/E)	150W	90~305Vac	47~95V	1.89A	93.5%	90°C	<20%	>0.95	230x68x42.5mm
PLD150-SMT-142(Z/B/E)	150W	90~305Vac	71~142V	1.26A	94.0%	90°C	<20%	>0.95	230x68x42.5mm
PLD150-SMT-190(Z/B/E)	150W	90~305Vac	95~190V	0.95A	94.0%	90°C	<20%	>0.95	230x68x42.5mm
PLD150-SMT-285(Z/B/E)	150W	90~305Vac	142~285V	0.63A	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

- 80°C ambient temperature operation (selected models)
- 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



80°C Ambient Temperature Operation

Electrical Specifications

Model	PLD150-SMT -24(Z/B/E)	PLD150-SMT -36(Z/B/E)	PLD150-SMT -42(Z/B/E)	PLD150-SMT -48(Z/B/E)	PLD150-SMT -58(Z/B/E)	PLD150-SMT -95(Z/B/E)	PLD150-SMT -142(Z/B/E)	PLD150-SMT -190(Z/B/E)	PLD150-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	7.5A	5A	4.3A	3.75A	2.60A	1.89A	1.26A	0.95A	0.63A
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	150W	150W	150W	150W	150W	150W	150W	150W	150W
Max. Current Ripple	750mA	500mA	430mA	375mA	300mA	200mA	150mA	100mA	80mA
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	2A	2A	2A	2A	2A	2A	2A	2A	2A
Max. Input Power	173W	173W	173W	173W	173W	173W	173W	173W	173W
Power Factor	>0.95 @ 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	42V	55V	75V	70V	125V	180V	260V	360V
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				-40~+80°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	200x68x42.5mm				230x68x42.5mm				
Mounting Length	212mm				242mm				
Overall Length	226mm				256mm				
Weight	1.15kg				1.45kg				
Life Time	>70,000 hours @ full load, 75°C Tcase				>100,000 hours @ full load, 75°C Tcase				

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

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.

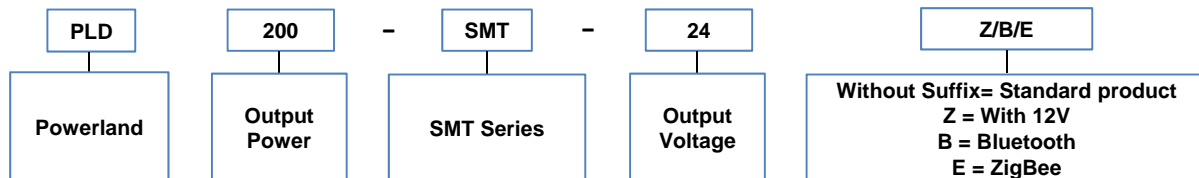
The output current of this series are programmable, and designed for 0(0.05)-10V/PWM/Rset/Clock/DMX (upon request) ultra-deep dimming applications. Bluetooth and ZigBee dimming are provided in B and E versions, respectively.



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
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.

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.

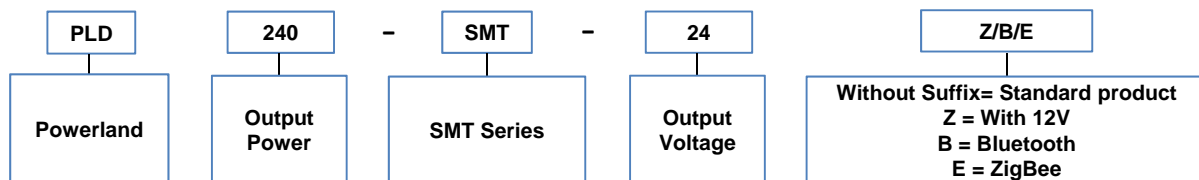
The output current of this series are programmable, and designed for 0(0.05)-10V/PWM/Rset/Clock/DMX (upon request) ultra-deep dimming applications. Bluetooth and ZigBee dimming are provided in B and E versions, respectively.



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

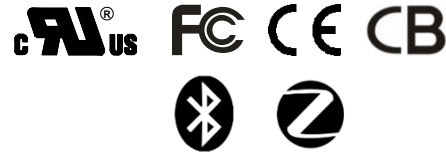
Electrical Specifications

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
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 / 10mA Max / 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.

Powerland's 320W Programmable Series offers digital programmable drivers with wide-range adjustable output current, together with 12V/100mA auxiliary output (optional) for smart lighting.

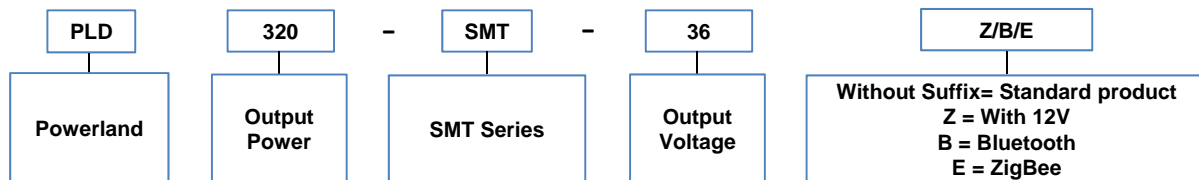
The output current of this series are programmable, and designed for 0(0.05)-10V/PWM/Rset/Clock/DMX (upon request) ultra-deep dimming applications. Bluetooth and ZigBee dimming are provided in B and E versions, respectively.



Applications

- Outdoor & indoor LED lights
- LED lights with flexible current settings
- Street lights, parking lights and architecture decoration lights
- LED horticulture lights
- 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
PLD320-SMT-36(Z/B/E)	320W	108~305Vac	24~36V	8.88A	92.5%	90°C	<20%	>0.95	245x84x42.5mm
PLD320-SMT-48(Z/B/E)	320W	108~305Vac	32~48V	6.66A	92.5%	90°C	<20%	>0.95	245x84x42.5mm
PLD320-SMT-54(Z/B/E)	320W	108~305Vac	36~54V	5.93A	93.0%	90°C	<20%	>0.95	245x84x42.5mm
PLD320-SMT-58(Z/B/E)	320W	108~305Vac	40~58.8V	5.52A	93.0%	90°C	<20%	>0.95	245x84x42.5mm
PLD320-SMT-152(Z/B/E)	320W	108~305Vac	94~152V	2.1A	93.0%	90°C	<20%	>0.95	245x84x42.5mm
PLD320-SMT-228(Z/B/E)	320W	108~305Vac	142~228V	1.4A	93.5%	90°C	<20%	>0.95	245x84x42.5mm
PLD320-SMT-428(Z/B/E)	320W	108~305Vac	320~428V	0.7A	94.0%	90°C	<20%	>0.95	245x84x42.5mm
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)
- Universal input voltage: 108~305Vac
- 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)
- > 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	PLD320-SMT -36(Z/B/E)	PLD320-SMT -48(Z/B/E)	PLD320-SMT -54(Z/B/E)	PLD320-SMT -58(Z/B/E)	PLD320-SMT -152(Z/B/E)	PLD320-SMT -228(Z/B/E)	PLD320-SMT -428(Z/B/E)
Output Voltage	24~36V	32~48V	36~54V	40~58.8V	94~152V	142~228V	320~428V
Current Programmable	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Max Output Current	8.88A	6.66A	5.93A	5.52A	2.1A	1.4A	0.7A
Output AUX Power Voltage (Optional)	N/A	12V	12V	12V	12V	12V	12V
Output AUX Power Current (Optional)	N/A	0-100mA	0-100mA	0-100mA	0-100mA	0-100mA	0-100mA
Dimming	0(0.05)~10V, PWM, External Resistor, Clock, DMX (upon request)						
Wireless Dimming	B Version: Bluetooth; E Version: ZigBee						
Output Power	320W	320W	320W	320W	320W	320W	320W
Max. Current Ripple	± 10%	± 10%	± 10%	± 10%	± 10%	± 10%	± 10%
Max. Voltage Ripple	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%
Voltage Range	108~305Vac	108~305Vac	108~305Vac	108~305Vac	108~305Vac	108~305Vac	108~305Vac
Frequency Range	47~63Hz	47~63Hz	47~63Hz	47~63Hz	47~63Hz	47~63Hz	47~63Hz
Max. Input Current	3.5A	3.5A	3.5A	3.5A	3.5A	3.5A	3.5A
Max. Input Power	360W	360W	360W	360W	360W	360W	360W
Power Factor	>0.95 @ 115Vac & 80~100% full load, >0.90 @ 284Vac & 85~100% full load						
Efficiency	92.5%	92.5%	93.0%	93.0%	93.0%	93.5%	94.0%
Max. Open Circuit Voltage	45V	65V	65V	65V	175V	265V	480V
THD	<20% @ 120Vac & 80~100% full load, <20% @ 284Vac & 85~100% 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						
Isolation(Primary to Secondary)	3750Vac / 10mAMax / 60seconds						
Isolation(Primary to Earth)	1875Vac / 10mAMax / 60seconds						
Isolation(Secondary to Earth)	1875Vac / 10mAMax / 60seconds						
Dimension	245x84x42.5mm						
Mounting Length	259mm						
Overall Length	269mm						
Weight	1.7kg						
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.